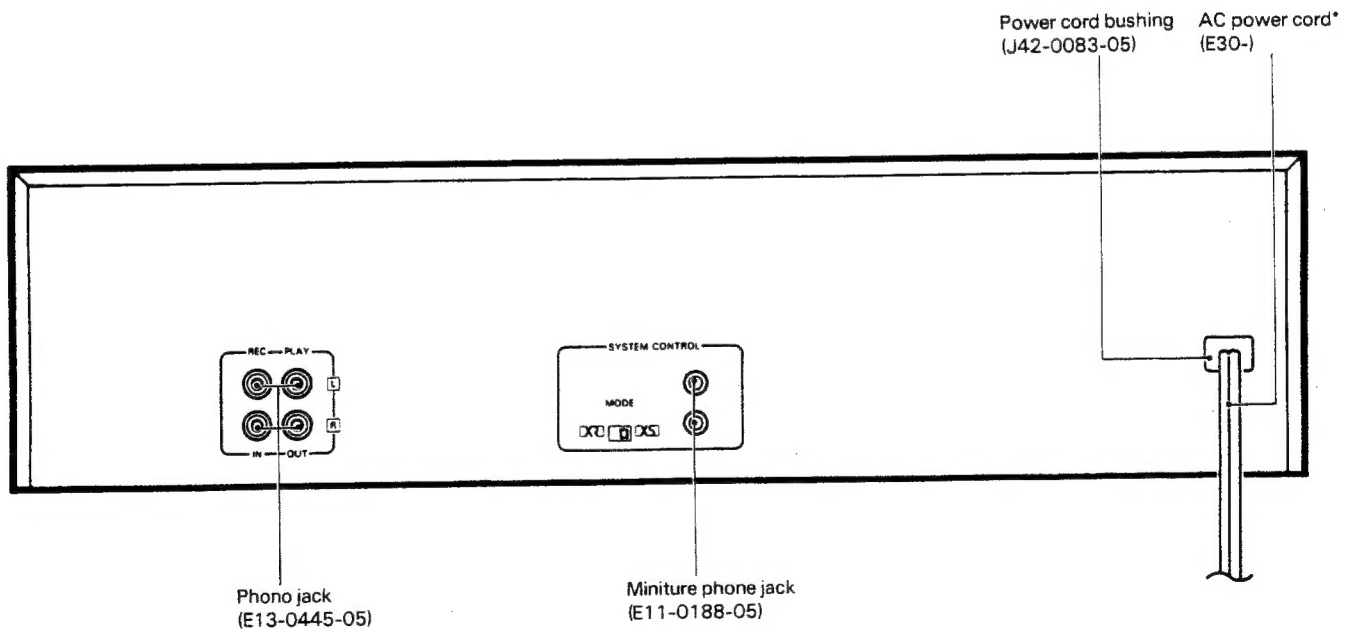


SERVICE MANUAL

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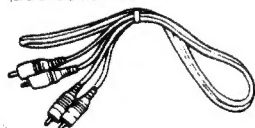
* Refer to parts list on page 39.

CONTENTS

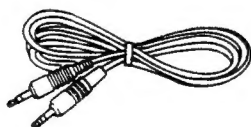
DISASSEMBLY FOR REPAIR.....	3	WIRING DIAGRAM	26
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ABGLEICH	24	SPECIFICATIONS	BACK COVER

Accessories

Audio cord 2
(E30-0505-05)



System control cord 1
(Except for the U.K. and
Europe) (E30-0977-05)



AC cord..... 1
(Except for some areas.)
(The shape may vary
depending on the
destination area.)
(E30-1329-05)



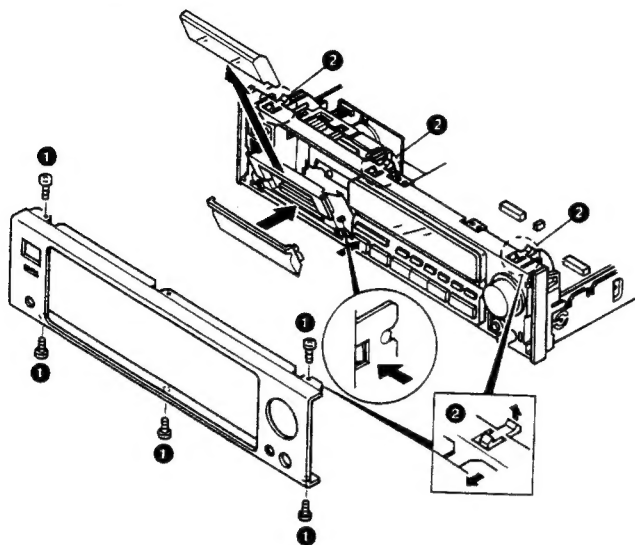
AC plug adaptor..... 1
(Except for some areas.)
For the unit with a European
AC plug in areas other than
Europe.
(E03-0115-05)



DISASSEMBLY FOR REPAIR

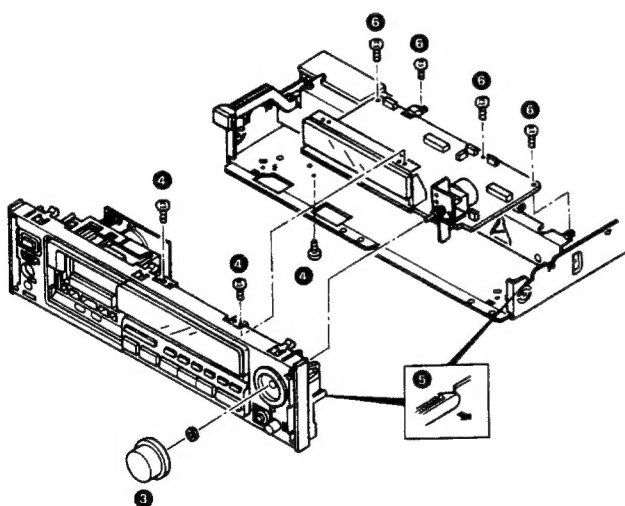
Remove the front panel

1. Remove the five screws ①
2. Remove the three claws ② then remove the front panel.
3. Press the EJECT button, then detach the cassette lid from cassette holder.



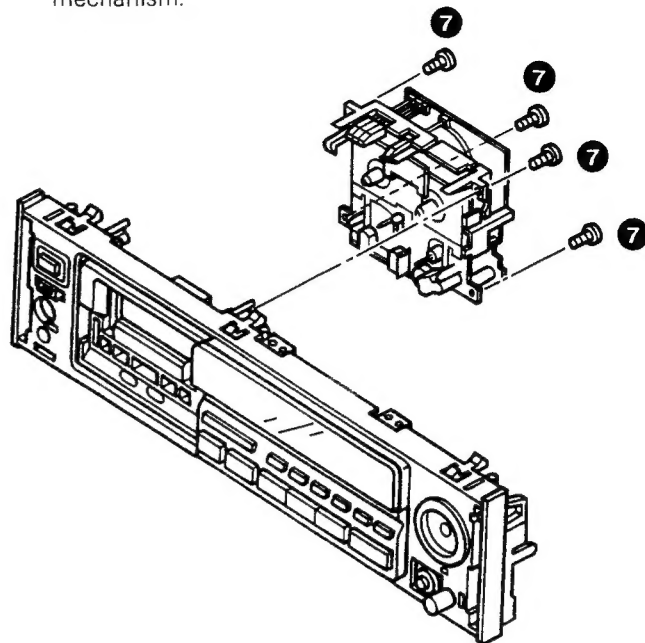
Remove the display unit.

4. Remove the knob ③ and nut.
5. Remove the three screws and ④ two claws ⑤ then remove the sub panel.
6. Remove the four screws ⑥ then remove the display unit.



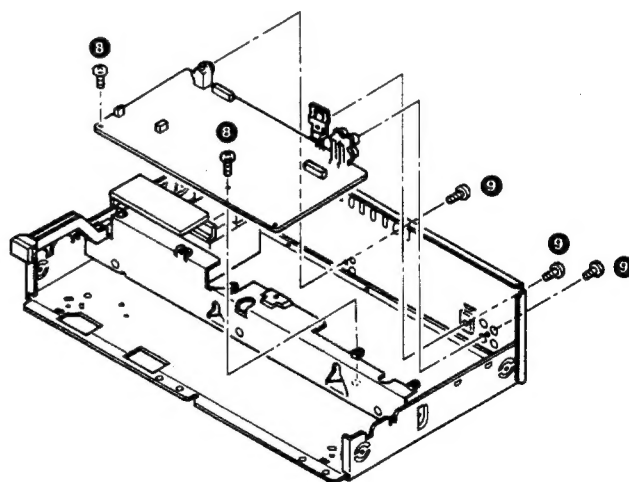
Remove the mechanism

7. Remove the four screws ⑦ then remove the mechanism.

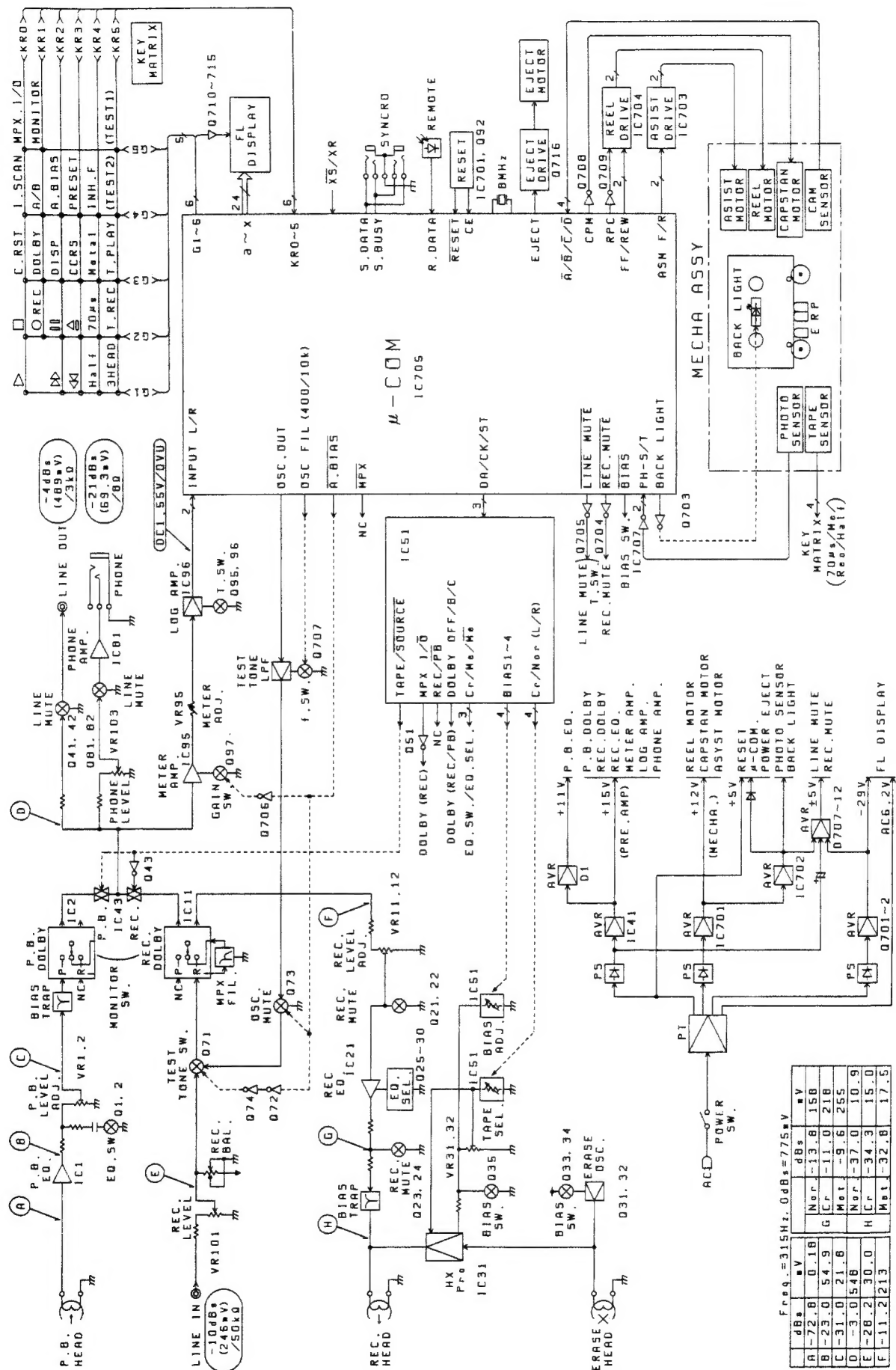


Remove the main PC board.

8. Remove the two screws ⑧
9. Remove the three screws ⑨, then remove the main PC board.



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Functions of Components
Cassette unit (X26-125X-XX)

Parts No.	Parts Name	Use/Function	Operation
Q1,2	2SC1740S or 2SC3311A	Playback equalization time constant switching	Playback equalization high-range time constant switching between 120 μ s and 70 μ s ON: 70 μ s.
Q21,22	2SD 1302	REC MUTE	Pin 13 (RM) of microprocessor IC705 goes high during recording, Q704 turns off, and Q21 and Q22 turn off.
Q23,24	2SC1740S	Playback equalization select (CrO ₂)	IC51 pin 8 (CrO2) goes high for CrO2 tape, and Q23 and Q24 turn off.
Q25,26	2SC1740S	Playback equalization (METAL)	IC51 pin 10 (MET) goes high for metal tape, and Q25 and Q26 turn off.
Q27,28	2SC1740S	Playback equalization peaking	IC51 pin 11 goes high for normal and CrO2 tape, and Q27 and Q28 turn off.
Q31,32	2SD863	BIAS OSC	105 kHz is produced during recording.
Q33	2SC3246	Bias power supply	Microprocessor IC705 pin 11 (BIAS) goes low during recording, Q34 turns off, Q33 turns on, and +B is applied to OSC for E. HX.
Q34	DTC124ES	BIAS ON/OFF SW	
Q35	DTC124ES	HX slow start switch	Switch that starts HX OSC slowly during recording.
Q41,42	2SD1302	L MUTE SW	Pin 12 (LM) of microprocessor IC705 goes high during recording or playing. Q705 turns off, and Q41 and Q42 turn off.
Q43	DTC124ES	TAPE/SOURCE SELECT SWITCH	Q43 is turned on and off by IC51 pin 7 (T/S) to control IC43.
Q45	DTC124ES	POWER ON MUTE	Mutes noise when the power is switched on.
Q51	DTC124ES	MPX SW	Q51 is turned on and off by IC51 pin 22. Q51 OFF \rightarrow MPX FIL ON
Q71	2SC1740S	TEST TONE SW	Controlled by IC705 pin 21 (A. BIAS).
Q72	2SC1740S		Low during A. BIAS \rightarrow Q72: off, Q74: on, Q71: off
Q73	2SC1740S		Q73 turns off, and the line input turns off.
Q74	2SA130.9A		The output from OSC OUT goes to Rch of IC11.
Q704	2SA1309A	R \bar{M} drive	Q704 is turned on and off by IC705 pin 13 (RM), and Q21 and Q22 are turned on and off.
Q705	2SA1309A	L \bar{M} drive	Q705 is turned on and off by IC705 pin 12 (LM). Q95, Q96, Q81, Q82, Q41, and Q42 are turned on and off.
Q706	2SA.1309A	LEVEL AMP SW	Q706 is turned on by A. BIAS, Q707 is turned on, and the gain of the IC95 level amplifier is changed.
Q707	2SC3311A		
Q708	2SC3246	CM DRIVE	Q708 is turned on and off by IC705 pin 25 (CPM). The capstan motor is also turned on and off.
Q709	2SC3311A	RM SP SW	Q709 is turned on and off by IC705 pin 38 (RPC), and the reel motor speed is controlled.
Q710 ? 715	DTC113ZS	FL DRIVE	Fluorescent display (grid) drive
Q716	2SC3246	EJECT MOTOR DRIVE	Q716 is turned on and off by IC705 pin 76 (EJECT), and the eject motor is controlled. ON: EJECT MOTOR ON.
Q718	DTA113ZS	POWER ON MUTE	When the power is switched on, Q718 is turned on to turn recording mute on.
IC1	TA8125S	PB EQ AMP	
IC11	HA1217ONT	DOLBY	Changed between OFF, B, and C by the input to pin 5. The multiplex filter is turned on and off by the input to pin 26.
IC21	NJM4565DD	REC EQ AMP	
IC31	μ PC1297CA	HX-PRO	
IC41	μ PC7815HF	+15V AVR	Power supply for the playback/record circuit.
IC43	TC4066BP	TAPE/MONITOR SWITCH	Controlled by IC51 pin 7 and Q43, the tape and source are switched by IC43 pins 5, 6, 12, and 13.

CIRCUIT DESCRIPTION

Parts No.	Parts Name	Use/Function	Operation
IC51	TC9164N	FUNCTION switch	See circuit description on page 10.
IC81	M5218AL	H.PHONE AMP.	
IC95	NJM4565DD	METER AMP.	
IC96	BA6138	LOG AMP.	
IC701	μPC7812HF	+12V AVR	Power supply for the mechanism
IC702	μPC7805HF	+5V AVR	Power supply for microprocessor, remote controller, and resetting
IC703	BA6209	AM DRIVE	Normal and reverse rotation is controlled by pins 2 and 10.
IC704	BA6229	RM DRIVE	Pins 2 and 10 control the direction of rotation, and the voltage at pin 4 controls the speed.
IC705	CXP82124-1036	μ-com	See circuit description on page 12.
IC707	BA10393N	Reel pulse amplifier	
			When the power is switched on, Q92 is turned on for resetting.

CIRCUIT DESCRIPTION


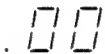

Description of Operation

Key name	Function	Display
FWD PLAY ▶	If there is a cassette in the drive, it is played back in the forward direction.	Linear counter
FF ▶▶	The tape is wound onto the right-hand reel at high speed.	Linear counter
REW ◀◀	The tape is wound onto the left-hand reel at high speed.	Linear counter
STOP ■	All operations are stopped.	Linear counter
REC/ARM ●/◆	Starts recording. If recording is in progress, ARM starts.	The REC indicator (●) lights. The indicator flashes during ARM and lights when ARM ends (■■●).
PAUSE ■■	Recording pauses (REC PAUSE) or playing pauses (PLAY PAUSE).	The PAUSE indicator (■■) lights.
COUNTER RESET	<ul style="list-style-type: none"> Resets the linear counter to 0.00. Maintains 0.00 while the key is held down. Stops when this key is pressed during zero stop. Invalid during DPSS track selection. 	Linear counter
DOLBY NR.	Switches the Dolby noise reduction. OFF → B → C	OFF B DOLBY NR [B] C DOLBY NR [C]
DISPLAY	Switches display.	All display → Counter only (The operation from the counter is automatically performed if another key is pressed.)
CD peak search	<ul style="list-style-type: none"> CD peak search start CD high-speed sampling 	REC PAUSE indicator
MPX FILTER	MPX FILTER ON/OFF	The MPX indicator lights or goes off.
A/B REPEAT	Playback the part between A and B. (Effective only during playback) When the key is first pressed, point A is memorized; when the key is pressed again, point B is memorized. When REWIND is pressed, playback starts from point A, and is repeated 16 times. <ul style="list-style-type: none"> If another key is pressed, the A-B repeat is cancelled. After the specified part has been played back 16 times, normal playback returns. It must take at least 10 seconds from point A to point B.	Repeat A ▶ B Counter indicator 0.01 Number of playbacks
AUTO BIAS	Auto bias on/off key	AUTO BIAS flashes. → Lights.
BIAS PRESET	1. AUTO BIAS on: The current optimum bias value is stored in memory. 2. AUTO BIAS off: The optimum bias value is recalled from memory.	1. AUTO BIAS → BIAS PRESET Flash → Light 2. BIAS PRESET Flash → Light

DPSS mode

Name	Key operation	Description
INDEX SCAN	INDEX SCAN key Counter indicator 0.01 Number of playbacks	The beginning of each track is played for about 10 seconds.
Zero stop	FF + STOP REW + STOP	Stop when the counter reaches 0.00.

CIRCUIT DESCRIPTION

Name	Key operation	Description (The description in parentheses is for reverse playback.)
Fast forward search (skip track selection)	<p>Press the FF key during forward playback.</p> <p>Counter indicator</p>  <p>Number of key presses Number of tracks</p>	<ul style="list-style-type: none"> • Skips forward (relative to the playback direction) the number of tracks (up to 16) equivalent to the number of times the FF key is pressed. • If the the FF is pressed during fast forward search, the number of times the key is pressed is added to the number of tracks to be skipped.
Rewind search (skip track selection)	<p>Press the REW key during forward playback.</p>	<ul style="list-style-type: none"> • Skips backward (relative to the playback direction) the number of tracks (up to 16, including the current track) equivalent to the number of times the REW key is pressed. • If the REW key is pressed during rewind search, the number of times the key is pressed is added to the number of tracks to be skipped.
One-track repeat	<p>Press the PLAY key again during playback, or press the PLAY key twice during an operation other than playback.</p> <p>Counter indicator</p>  <p>Number of playbacks</p>	<ul style="list-style-type: none"> • The current track is played 16 times, the normal playback returns. • If the PLAY key is pressed again while a track is being repeated, the track is repeated 16 times from that time.
Rewind play	<p>Press the REW and FWD PLAY keys together.</p>	<ul style="list-style-type: none"> • When the REW and FWD PLAY keys are pressed together, the tape is rewound to its end (RWD), and then a fast forward search is done on the forward side. When the first track is detected, playback starts. If the FF and RVS PLAY keys are pressed together, the tape is fast-forwarded to its end, then a fast forward search is done on the reverse side (B).
Dash & Play	<p>Press the FF and REW keys together.</p> <ul style="list-style-type: none"> • One-side full repeat for undirectional models <p>Counter indicator</p>  <p>Number of playbacks</p>	<ul style="list-style-type: none"> • Plays back in the current tape direction. • Cues and searches for the next track if a blank section continues for ten seconds during playback. If a track is found, it is played back.
Rerec standby	<p>Press the REW key during forward recording.</p>	<ul style="list-style-type: none"> • If the end of a previous track is found by reviewing (RVW), the tape is stopped two seconds before the end.
Auto rec mute	<p>Press the REC key during normal recording.</p>	<p>Turn REC MUTE on for four seconds, record, and then record pause.</p>

CIRCUIT DESCRIPTION

Auto-bias operation

- The deck must be stopped and contain a tape that can be recorded on.

1) Bias select

- Feed unrecorded tape for ten seconds to skip the leader tape.
- Changing the bias values in order, starting with the largest, record 400-Hz and 10-kHz signals alternately, and monitor them at the same time. The point where 10 kHz (level) \geq 400 Hz (level) is the optimum value, and is stored in memory and output.

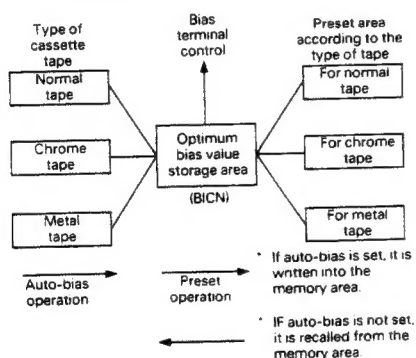
2 HEAD

Feed	REC	RWD	PLAY	RWD
10 sec	16 sec	2 sec	16 sec	2 sec

2) Bias preset

When the auto-bias operation is performed, the optimum bias value is stored in the current memory area (BICN).

- (a) Since there is only one area regardless of the type of tape, if the auto-bias is set and the type of tape is changed, the optimum bias value will be wrong. So the auto-bias needs to be set again or a preset value needs to be recalled.



- (b) A preset value is recalled to solve the problem described in (a).

The preset condition is backed up and is not erased by switching the power on or off. If presetting is turned on, the optimum bias value for the type of tape is always recalled from the preset area. So recording can be always done with the optimum bias value when the tape is changed or timer recording takes place.

4. Operation canceling

- (a) If auto-bias is set and the AUTO BIAS key is pressed, the previous optimum bias value is cleared, and the initial setting (center value) is recalled.
- (b) If bias preset is off, and the BIAS PRESET key is pressed, the initial setting is recalled.

Test mode

1. Test mode setting

Short pin 3 to pin 4 with a diode, and switch the power on.

2. Test mode cancel

The test mode is exited when the PAUSE KEY is pressed.

3. Test mode

- (1) **All indicators on:** All indicators light 500 ms after the power is switched on, and stay on for about 1.5 seconds. When all the indicators go off, key inputs are accepted.

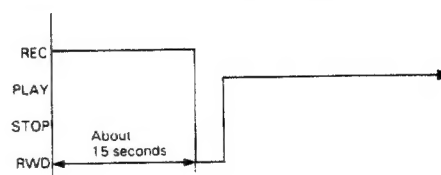
- (2) **Mechanical switch display:** The condition of each mechanical switch is displayed on the level meter section when LINE MUTE is on.

R.REC INH	CrO ₂	METAL	F.REC INH
+1 dB	+3 dB	+7 dB	+12 dB

- (3) **Direct change:** Playback is changed directly to recording.

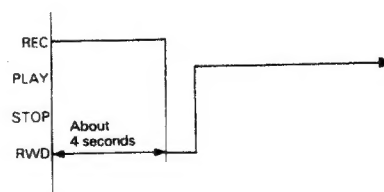
- (4) **Timer play:** When the timer switch is set to PLAY, playback starts in the shortest possible time (about two seconds).

- (5) **Timer recording:** When the timer switch is set to REC, recording and playback take place automatically as shown in the following timing chart.



- (6) **CCRS:** When the CCRS key is pressed, serial code "CCRS start" is output, then REC PAUSE is made effective.

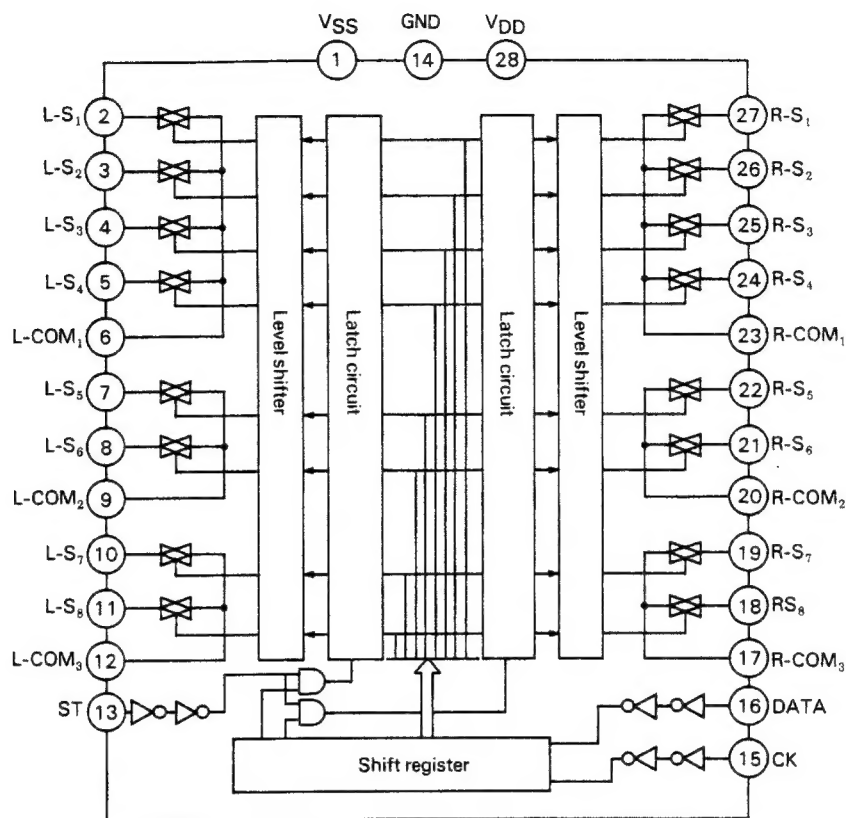
- (7) **Four-second recording:** When the REC key is pressed, recording is done for four seconds, then the recorded part is played back from the beginning.



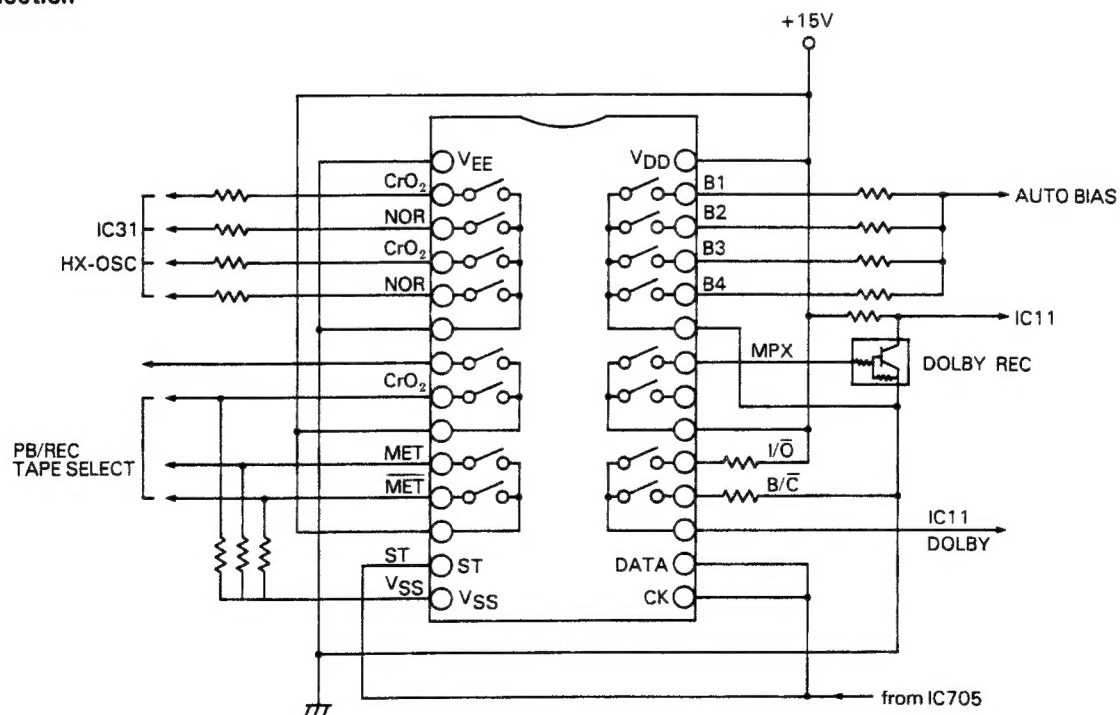
CIRCUIT DESCRIPTION

Analog function switch array IC (TC9164N)

Block diagram



Pin connection



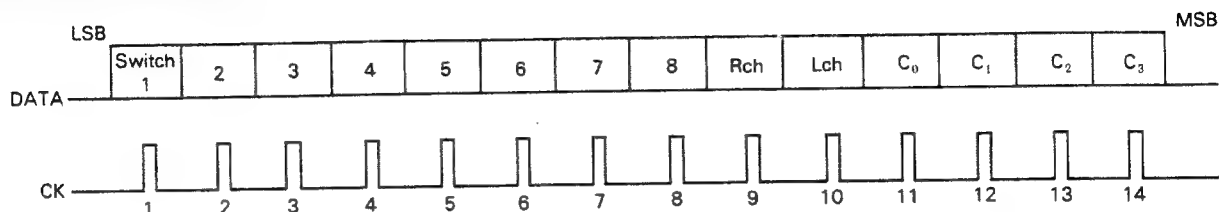
CIRCUIT DESCRIPTION

Description of Operation

Data input

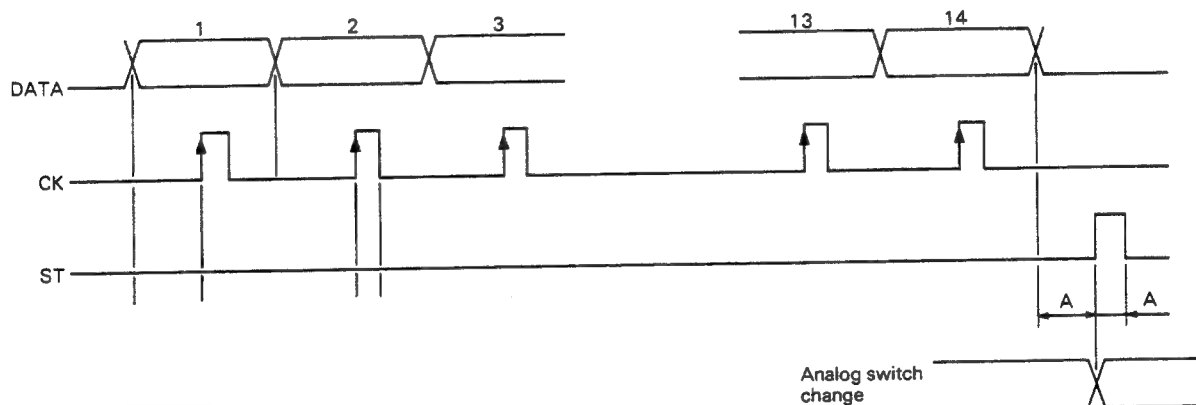
The TC9164N can control each analog switch by supplying appropriate data to the DATA, CK, and ST pins.

Data consists of 14 bits, as follows:



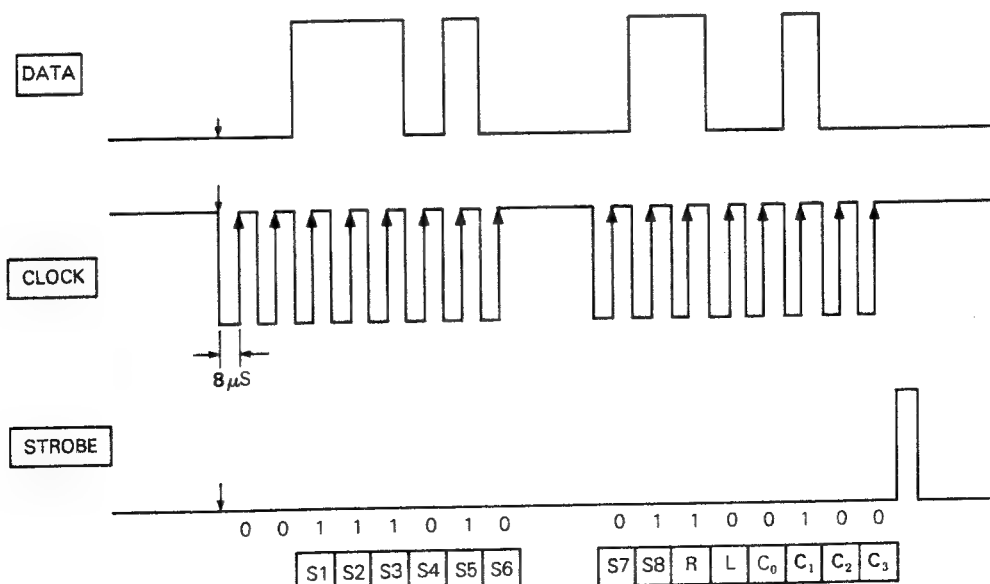
Bits 1 to 8 correspond to analog switches 1 to 8. Set the bit corresponding to the switch to be turned on to 1.
 Bits 9 and 10 specify the right or left channel.
 Bits 11 to 14 are code bits used to select chips. (0100 for the TC9164)

Data input to DATA is input to the internal shift register on the rising edge of the CK input signal. The input data is finally transferred to the latch circuit from the shift register with the ST signal, and the old data is replaced by the new.



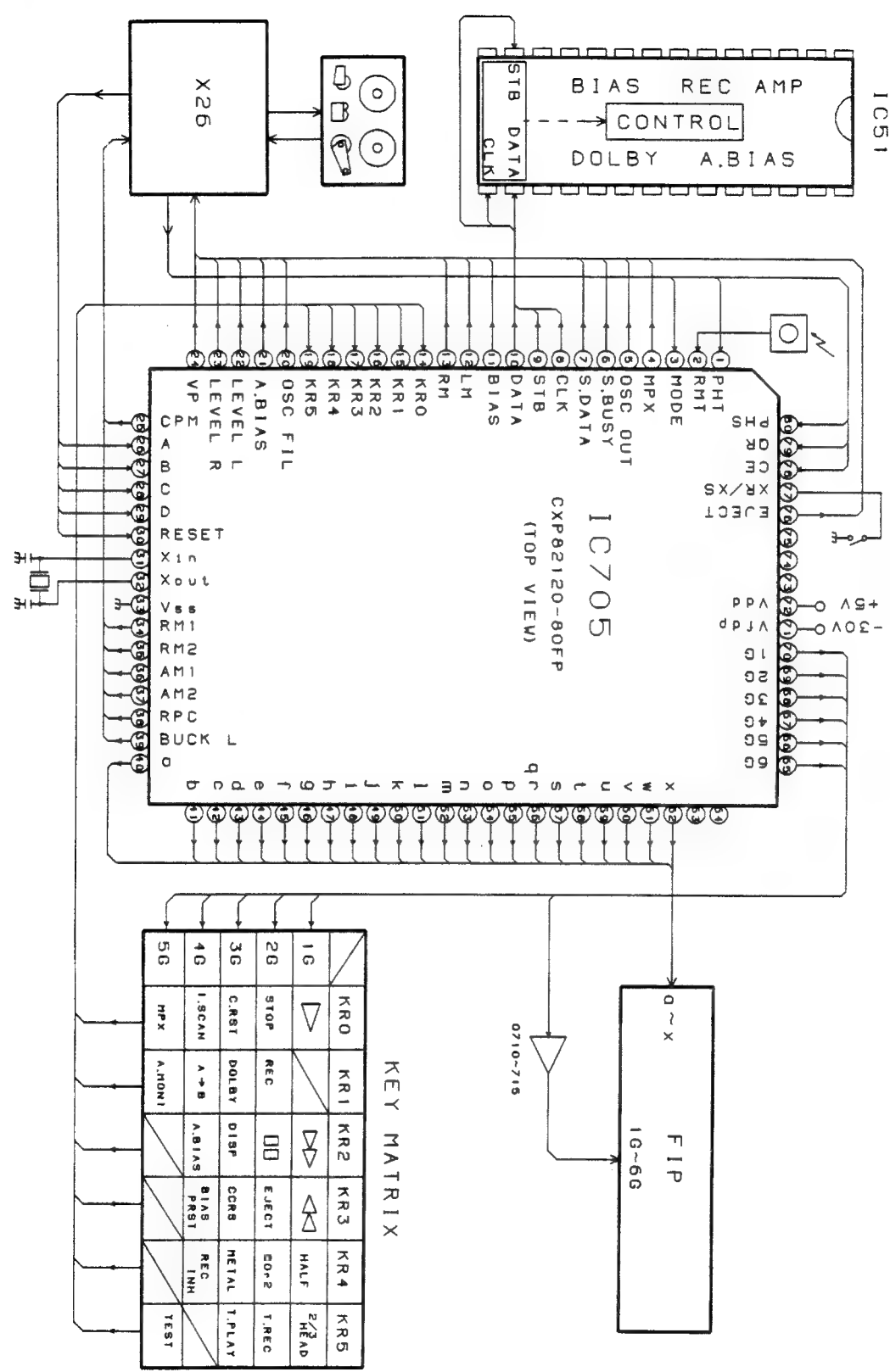
Example of transfer timing chart

The above clock waveform is for 16 bits, but the first two bits are invalid. In this example, the R side of SW1, SW2, SW3, SW5, and SW8 conducts.



CIRCUIT DESCRIPTION

CXP8210-80FP



CIRCUIT DESCRIPTION

Pin Description

Pin No.	Pin name	I/O	Name	Description
1	PE3/INT3	I	PHOTO INT.	Photosensor takeup side
2	PE4/RMC	I	REMO IN.	Remote control signal input pin
3	PE5	I	M. MODE	Mechanism operation mode identification H: KX-7030 L: OTHER
4	PE6	O	MIX	MPX FILTER ON/OFF H: OFF L: ON
5	PE7/TO	O	DSCOUT	Internal oscillator output pin for auto-bias 400 Hz or 10 kHz
6	PB0/CINT	I/O	SBUSY	Synchronizing pin for external equipment
7	PB1/CS0	I/O	S.DATA	Synchronizing pin for external equipment
8	PB2/SCK0	O	CLK	Selector IC drive pin
9	PB3/SI0	O	ST	Selector IC drive pin
10	PB4/SO0	O	DATA	Selector IC drive pin
11	PB5/SCK1	O	BIAS	Bias generation on/off during recording H: OFF L: ON
12	PB6/SI1	O	LINE MUTE	Line mute
13	PB7/SO1	O	REC MUTE	Rec mute
14	PC0/KR0	I	KR0	Key return
15	PC1/KR1	I	KR1	Key return
16	PC2/KR2	I	KR2	Key return
17	PC3/KR3	I	KR3	Key return
18	PC4/KR4	I	KR4	Key return
19	PC5/KR5	I	KR5	Key return
20	PC6/KR6	O	OSC FILTER	Switching filters for internal oscillation H: Line L: Internal
21	PC7/KR7	O	A. BIAS	Switching input for auto-bias H: Line L: Internal
22	PA0/AN0	I	LEVEL Lch	Level input pin Lch
23	PA1/AN1	I	LEVEL Rch	Level input pin Rch
24	PA2/AN2	I	VOL POSITION	
25	PA3/AN3	O	Sankyo mechanism CPM	Capstan motor control
26	PA4/AN4	I	ROTARY SW \bar{A}	Cam position detection switch for Sankyo mechanism
27	PA5/AN5	I	\bar{B}	Cam position detection switch for Sankyo mechanism
28	PA6/AN6	I	\bar{C}	Cam position detection switch for Sankyo mechanism
29	PA7/AN7	I	\bar{D}	Cam position detection switch for Sankyo mechanism
30	RST	I		Reset input pin
31	EXTAL	I		Oscillator connection pin 8.0 kHz
32	XTAL	O		Oscillator connection pin
33	Vss			Power connection pin
34	PD0/S0	O	FF	Reel motor control
35	PD1/S1	O	REW	Reel motor control
36	PD2/S2	O	ASM1	Assist motor control
37	PD3/S3	O	ASM2	Assist motor control
38	PD4/S4	O	RPC	Reel motor speed control H: PLAY L: Other
39	PD5/S5	O	VOLLED	

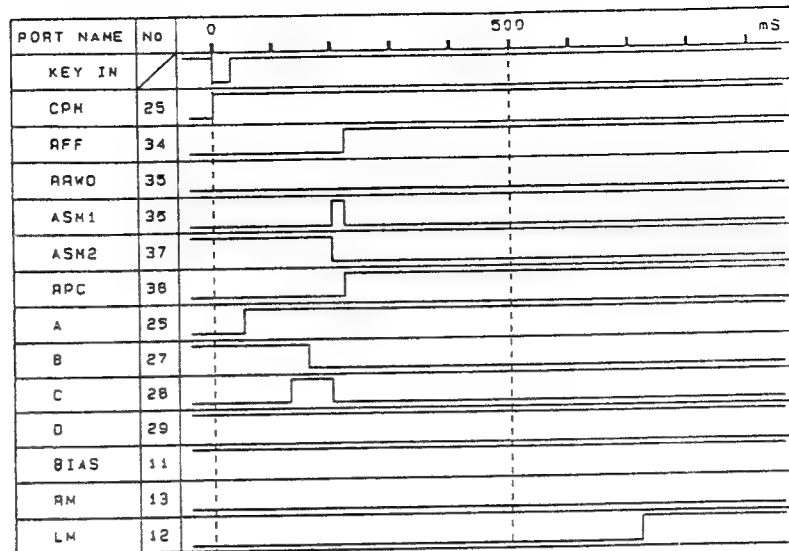
CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
40	PD6/S6	O	a	Segment drive pin
41	PD7/S7	O	b	Segment drive pin
42	PD8/S8	O	c	Segment drive pin
43	PF1/S9	O	d	Segment drive pin
44	PF2/S10	O	e	Segment drive pin
45	PF3/S11	O	f	Segment drive pin
46	PF4/S12	O	g	Segment drive pin
47	PF5/S13	O	h	Segment drive pin
48	PF6/S14	O	i	Segment drive pin
49	PF7/S15	O	j	Segment drive pin
50	S16	O	k	Segment drive pin
51	S17	O	l	Segment drive pin
52	S18	O	m	Segment drive pin
53	S19	O	n	Segment drive pin
54	S20	O	o	Segment drive pin
55	T15/S21	O	p	Segment drive pin
56	T14/S22	O	q,r	Segment drive pin
57	T13/S23	O	s	Segment drive pin
58	T12/S24	O	t	Segment drive pin
59	T11/S25	O	u	Segment drive pin
60	T10/S26	O	v	Segment drive pin
61	T9/S27	O	w	Segment drive pin
62	T8/S28	O	x	Segment drive pin
63	T7	O		Unused pin
64	T6	O		
65	T5	O	6G	Grid drive pin/Scanning for key reading
66	T4	O	5G	Grid drive pin/Scanning for key reading
67	T3	O	4G	Grid drive pin/Scanning for key reading
68	T2	O	3G	Grid drive pin/Scanning for key reading
69	T1	O	2G	Grid drive pin/Scanning for key reading
70	T0	O	1G	Grid drive pin/Scanning for key reading
71	V _{FDP}			Pulldown power supply for fluorescent display tube drive pin (about -30 V)
72	V _{DD}			Power supply pin +5V
73	N _{C/VPP}			NC
74	PG0	O	MOTORVOL UP	
75	PG1	O	MOTORVOL DOWN	
76	PG2	O	EJECT	Eject motor drive pin
77	PG3	I	SINCRO MODE	Synchronizing mode setting pin H: XR L: XS
78	PE8/INT0	I	\overline{CE}	Backup detection pin H: normal L: Backup
79	PE1/INT1	I	QUICK REVERSE	Quick-reverse detection pin
80	PE2/INT2	I	PHOTO n _j S.	Photosensor supply side

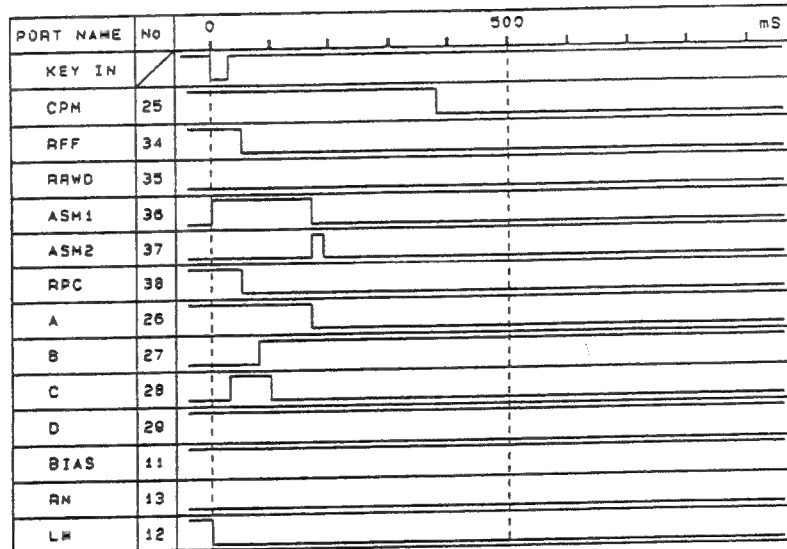
CIRCUIT DESCRIPTION

TIMING CHART

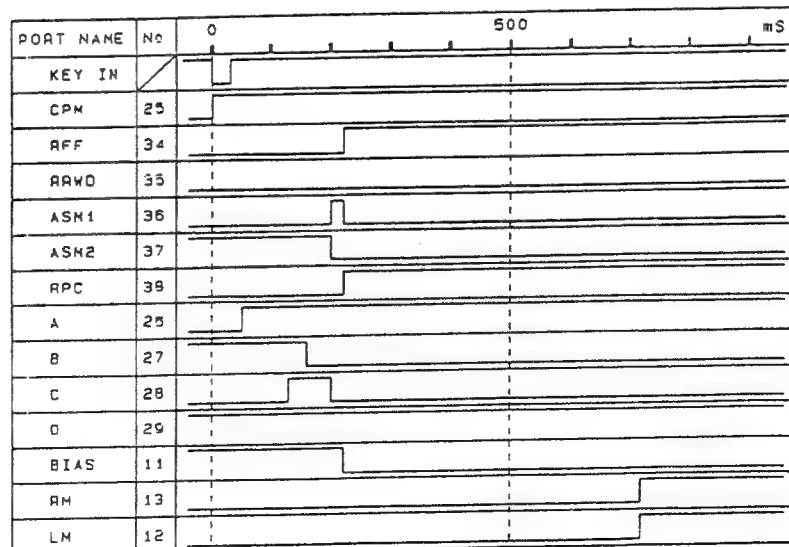
STOP TO PLAY



PLAY TO STOP

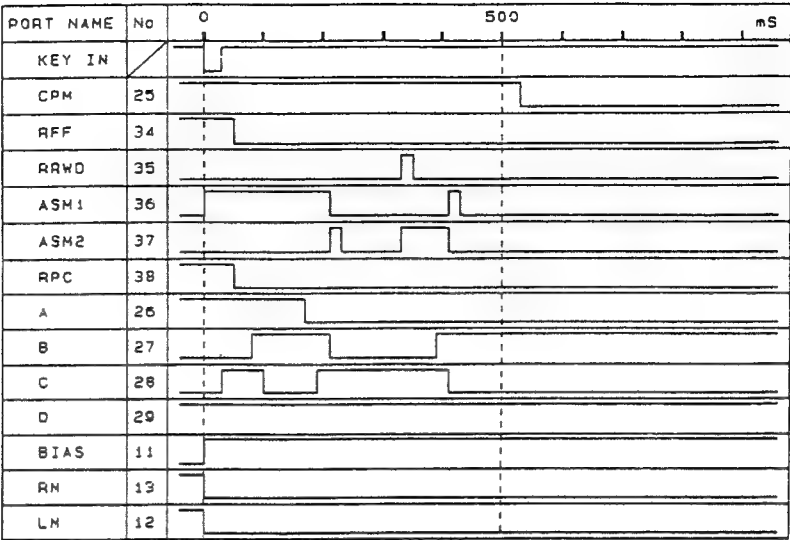


STOP TO REC

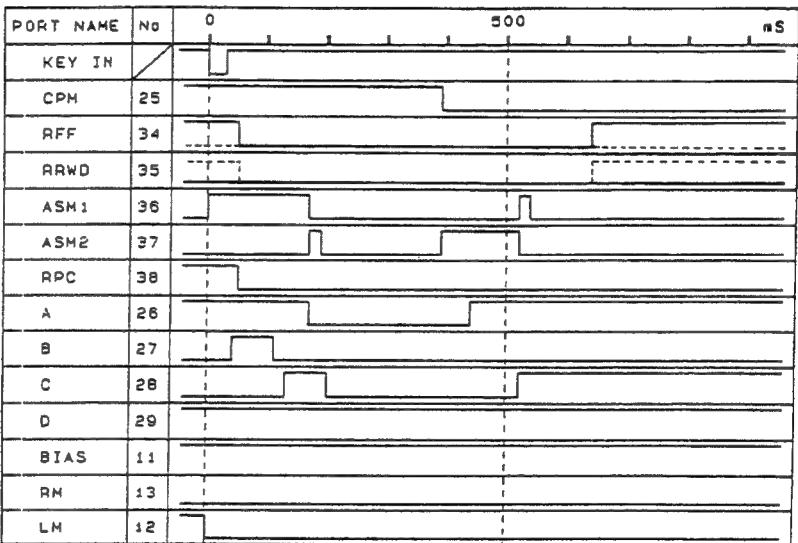


CIRCUIT DESCRIPTION

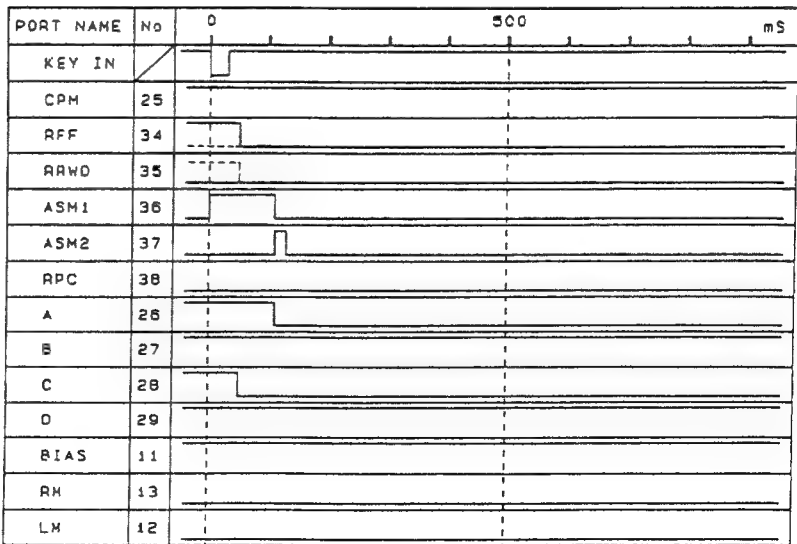
REC TO STOP



PLAY TO CUE/RVW (---)

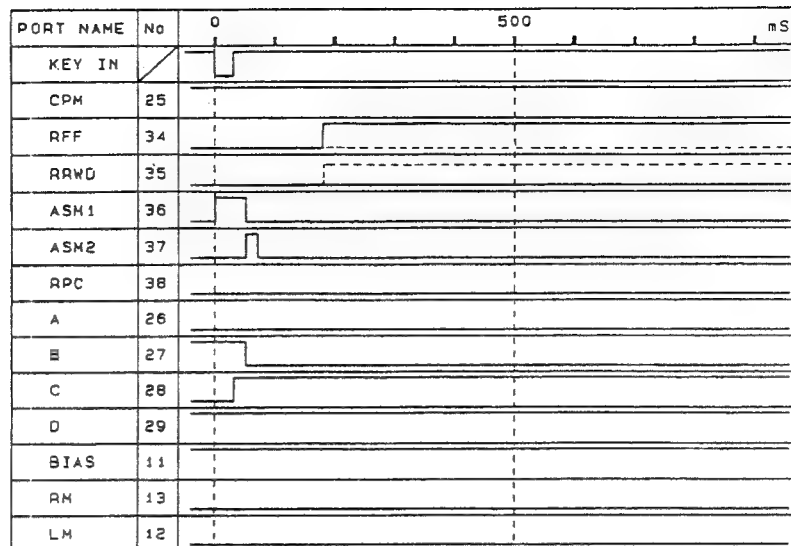


CUE/RVW TO STOP

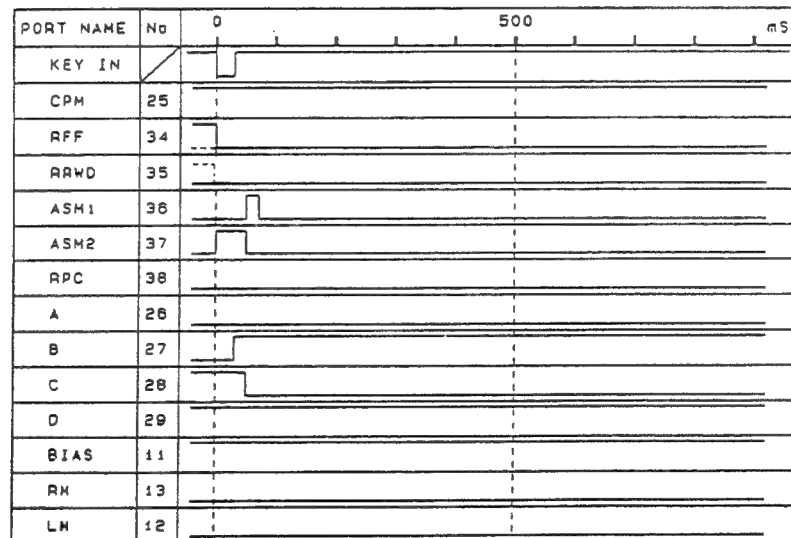


CIRCUIT DESCRIPTION

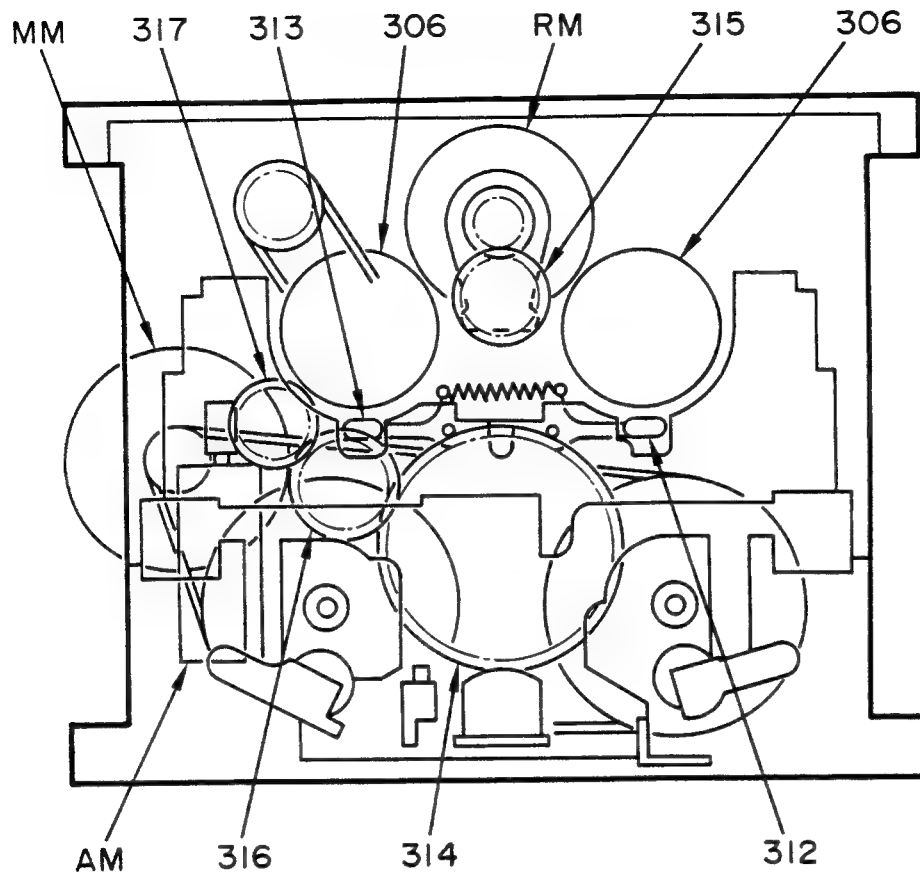
STOP TO FF/RWD (---)



FF/RWD TO STOP



MECHANISM DESCRIPTION



Mechanism specification

Use of parts

MM	T42-0560-08	DC MOTOR ASSY (CAPSTAN)
RM	T42-0592-08	DC MOTOR ASSY
AM	T42-0593-08	DC MOTOR ASSY
BM	D16-0299-08	MAIN BELT
BR	D16-0325-08	BELT

PLAY Torque: 35 ~ 55 g.cm
FF/RWD Torque: 70 ~ 160 g.cm
Back Tension Torque: 2 ~ 5 g.cm

MECHANISM DESCRIPTION

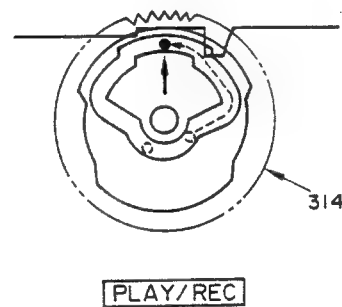
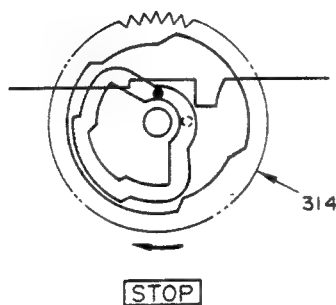
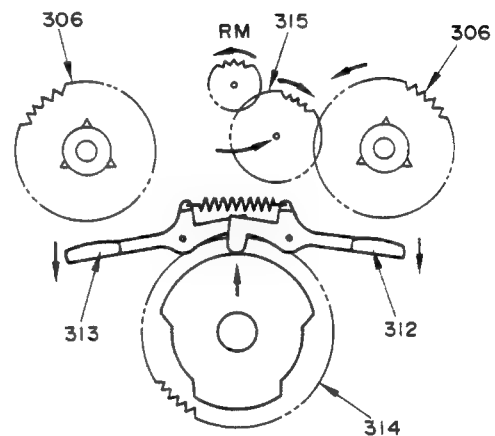
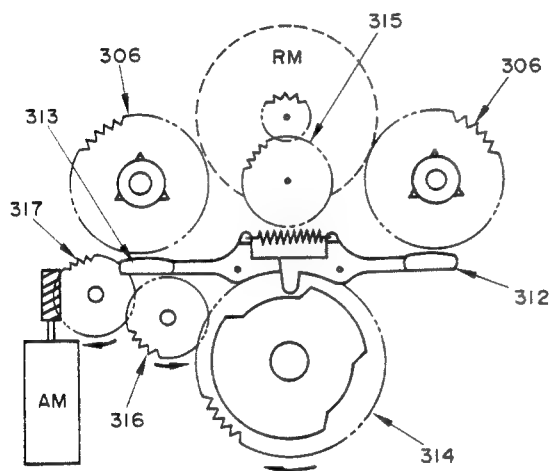
Description of Operation

Playback/Record

1. The assist motor runs.
2. Relay gears A and B turn the cam gear in the direction of the arrow, raising the boss on the head chassis. The pinch roller is pressed against the capstan.
3. In the PLAY position, the reel brake is released by the cam on the cam gear.
4. The reel motor runs in the direction of the arrow, and the idler gear starts turning the takeup reel in the direction of the arrow to start playback/recording.

Playback/record → STOP

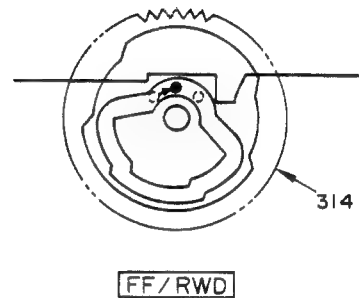
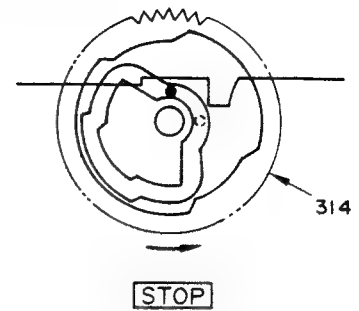
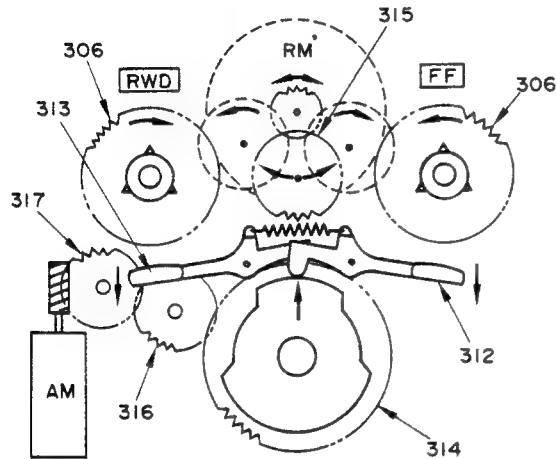
The assist motor runs, and the operations up to playback/record are reversed.



MECHANISM DESCRIPTION

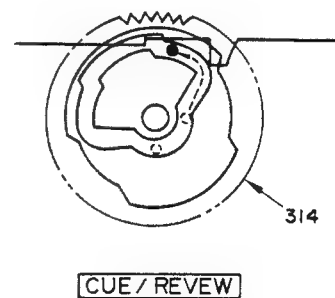
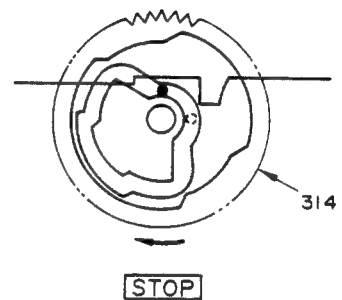
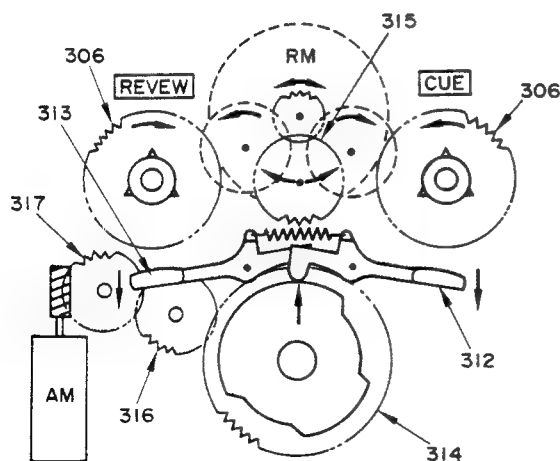
Fast forward/rewind

1. The assist motor rotates the cam gear, and the brake assembly is disengaged from the takeup and supply reels. The head chassis is not lifted, and the pinch roller and head do not contact the tape.
2. The reel motor starts running in the fast forward or rewind directions to wind the tape forward or in reverse.



Cue/review

1. The assist motor runs, the cam gear turns, and the head chassis is raised. The pinch roller is also raised, but is not pressed against the capstan. The head contacts the tape.
2. The reel motor runs in the cue and review directions. When the motor runs in the cue direction, the takeup reel is turned by the idler gear; when the motor runs in the review direction, the supply reel turns to wind the tape.

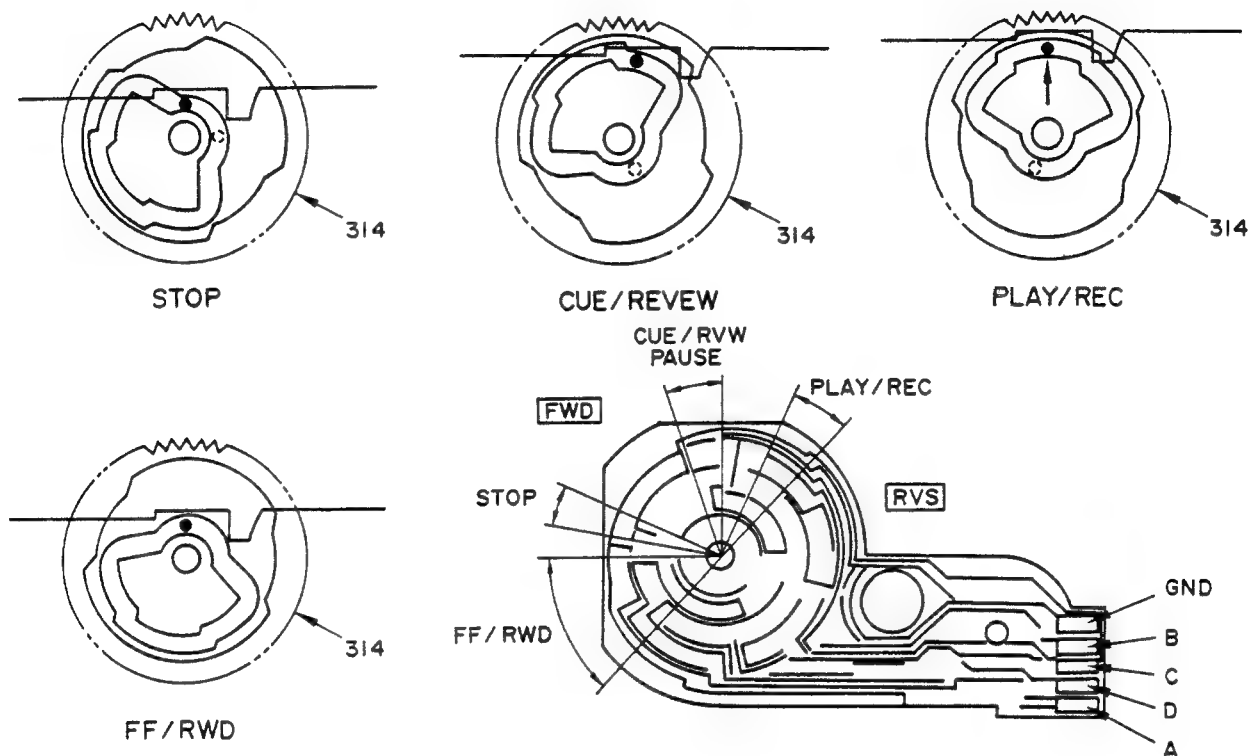


MECHANISM DESCRIPTION

Rotary switch operation

The operation of the mechanism is determined by the position of the rotary switch on the cam gear. Data on rotary switches A to D is input to the micropocessor to control

the assist motor, turn the cam gear, and control the head position and the brake assembly.



Rotary switch cam flow

Direction		RVS (unused)							FWD						
Mode		PLAY		PAUSE CUE REV		STOP		FF/RWD	FF/RWD		STOP		PAUSE CUE REV		PLAY
Cam angle		20°	24°	18°	46°	14.5°	11°	46.5°	46.3°	11°	14.5°	46°	18°	24°	20°
Rotary switch	A	H							(L)		(L)		(H)		(H)
	L								(L)		(H)		(H)		(L)
	B	H							(H)		(L)		(H)		(L)
	L								(H)		(H)		(H)		(L)
	C	H							(H)		(H)		(H)		(H)
	L								(H)		(H)		(H)		(H)
	D	H							(H)		(H)		(H)		(H)
	L								(H)		(H)		(H)		(H)
Head base position (approximate)	PLAY														
	PAUSE														
	STOP														

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, each switch should be set as follows: TAPE: NORMAL, DOLBY.: OFF, INPUT: LINE I. Cassette mechanism section (REC/PB head adjustment)							0 dBs = 0.775 V
[1]	Demagnetization and cleaning	—	—	Power OFF, demagnetization, cleaning play	REC/PB head, erase head, capstan, pinch roller	Demagnetize the REC/PB head by head eraser. Clean the REC/PB head, erase head, capstan and pinch roller with a cotton swab immersed in alcohol.	
[2]	REC/PB head azimuth	MTT-114, TCC-153 10 kHz, -10 dB SCC-1727	(B)	PLAY	Azimuth adjustment screw	In a setting where the output is maximized, adjust the azimuth adjustment screw so that the Lissajous figure appearing on the oscilloscope screen comes near to a line slanted 45°. Note: The head should be installed in such a manner that it approaches the tape face.	(a)
[3]	Tape speed	MTT-111 TCC-100 SCC-1727 3 kHz, -4 dB	(B)	PLAY	※ Semi-fixed resistor in DC motor assembly	Adjust so that frequency is 3 kHz at the center of the tape.	(b)
II. PC board adjustment							
<1>	Playback level	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R) (X26-126)	Adjust so that LINE OUT is -1.2 dBs.	
		MTT-256 SCC-1727 315 Hz				Adjust so that LINE OUT is -4.0 dBs.	
		MTT-256U, TCC-160 315 Hz				Adjust so that LINE OUT is 0 dBs.	
<2>	Bias current	(A) 1kHz, -30 dBs 10 kHz, -30 dBs	(B)	Adjust the REC VR (LEVEL, BALANCE) so that the REC monitor output is -24 dBs at 1 kHz, and record and playback 1 kHz and 10 kHz alternately.	VR31(L) VR32(R) (X26-126)	Record 1 kHz and 10 kHz alternately, and adjust each bias current adjustment VR so that the 10 kHz play back level is +0.5 dBs against 1 kHz.	
<3>	FL meter 0 dB	(A) 1 kHz, -10 dBs	—	Adjust the REC VR (LEVEL, BALANCE) so that the REC PAUSE monitor output is -4 dBs at 1 kHz.	VR95(R) (X25-440)	Adjust so that "0 dB" lights.	
Note: On item <1> in "II. PC board adjustment"							
Although 3 kinds of tapes are set forth for the playback level adjustment, the use of one tape suffices for adjustment. Here is meant no necessity for the use of all these 3 kinds of tapes. Other than the abovementioned tapes, when a test tape equal in magnetic flux and frequency is available, the adjustment is feasible with this test tape by making the playback output suited to the specified output level of this tape in agreement with the adjustment method.							

※ For your safety, remove the MECHANISM Assy with FRONT PANEL & PCB when you adjust tape speed.

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
Chaque commutateur doit être réglé comme suit, à moins d'indication contraire. TAPE: NORMAL, DOLBY: OFF, INPUT: LINE I. Section de mécanisme de la cassette (ajustement de la tête d'enregistrement/lecture)							0 dBs = 0,775 V
[1]	Démagnétisation et nettoyage	—	—	Alimentation coupée, démagnétisation, nettoyage, lecture	Tête d'enregistrement/lecture, tête d'effacement, cabestan, galet presseur	Démagnétiser la tête d'enregistrement/lecture avec l'effaceur de tête. Nettoyer la tête d'enregistrement/lecture, la tête d'effacement, le cabestan et le galet presseur avec un coton-tige trempé dans de l'alcool.	
[2]	Azimut de la tête d'enregistrement/lecture	SCC-1727 MTT-114, TCC-153 10 kHz, -10 dB	(B)	PLAY	Vis d'ajustement de l'azimut	Au réglage où la sortie est maximisée, ajuster la vis de réglage de l'azimut pour que la figure de Lissajous sur l'écran de l'oscilloscope soit proche d'une ligne inclinée sur 45°. Remarque: La tête doit être installée de manière à ce qu'elle s'approche de la face de la bande.	(a)
[3]	Vitesse de la bande	SCC-1727 MTT-111. TCC-100 3 kHz, -4 dB	(B)	PLAY	※ Résistance semi-fixe dans l'ensemble du moteur CC.	Ajuster pour que la fréquence soit, 3 kHz au centre de la bande.	(b)
II. Ajustement de la plaquette de circuits imprimés							
<1>	Niveau de lecture	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R) (X26-126)	Ajuster pour que LINE OUT soit -1,2 dBs.	
		MTT-256, SCC-1727 315 Hz				Ajuster pour que LINE OUT soit -4,0 dBs.	
		MTT-256U, TCC-160 315 Hz				Ajuster pour que LINE OUT soit 0 dBs.	
<2>	Courant de polarisation	(A) 1kHz, -30 dBs 10 kHz, -30 dBs	(B)	Ajuster la VR REC (LEVEL, BALANCE) pour que la sortie de contrôle REC soit -24 dBs à 1 kHz et l'enregistrement et la lecture 1 kHz et 10 kHz alternativement.	VR31(L) VR32(R) (X26-126)	Enregistrer 1 kHz et 10 kHz alternativement et ajuster chaque VR d'ajustement de courant de polarisation pour que le niveau de lecture 10 kHz soit +0,5 dBs contre 1.	
<3>	Compteur fluorescent 0 dB	(A) 1 kHz, -10 dBs	—	Ajuster la VR REC (LEVEL, BALANCE) pour que la sortie de contrôle REC PAUSE soit -4 dBs à 1 kHz.	VR95(R) (X25-440)	Ajuster pour que "0 dB" s'allume.	
Remarque: Sur le paragraphe <1> de II. Ajustement de la plaque de circuits imprimés.							
Bien que 3 sortes de bandes soient employées pour l'ajustement du niveau de lecture, l'utilisation d'une bande suffit pour l'ajustement. En plus des bandes citées ci-dessus, quand une bande test de flux magnétique et de fréquence égaux est disponible, l'ajustement est possible en réglant la sortie de lecture sur le niveau de sortie spécifique à cette bande, selon la méthode d'ajustement.							

※ Pour des raisons de sécurité, déposer le mécanisme avec le panneau avant et le PCB pour régler la vitesse de la bande.

ABGLEICH

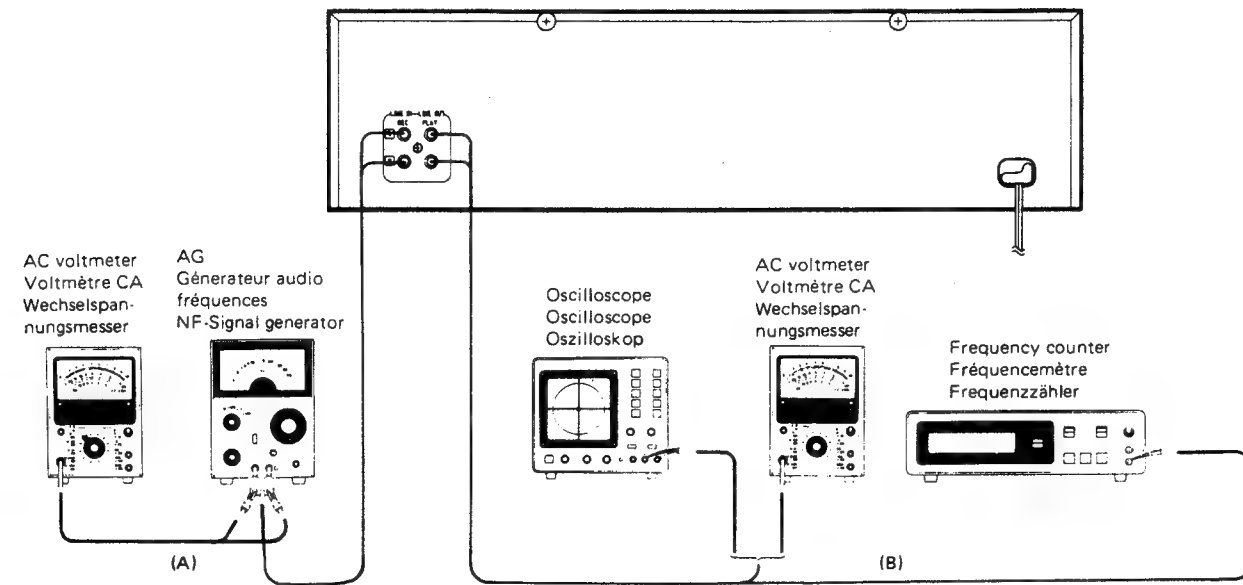
NR	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERÄT-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
Falls nicht anders angegeben, müssen die einzelnen Schalter wie folgt eingestellt sein: TAPE: NORMAL, DOLBY: OFF, INPUT: LINE I. Kassettengerät-Abschnitt (Aufnahme/Wiedergabekopf-Einstellung)							0 dBs = 0,775 V
[1]	Entmagnetisierung und Reinigung	—	—	Spannungsversorgung aus, Entmagnetisierung, Reinigung, Wiedergabe	Aufnahme/Wiedergabekopf, Löschkopf, Tonwelle, Andruckrolle	Den Aufnahme/Wiedergabekopf mit einem Entmagnetisierer entmagnetisieren. Den Aufnahme/Wiedergabekopf, den Löschkopf, die Tonwelle und die Andruckrolle mit einem in Alkohol eingetauchten Wattestäbchen reinigen.	
[2]	Aufnahme/Wiedergabekopf-Azimet	SCC-1727 MTT-114, TCC-153 10 kHz, -10 dB	(B)	PLAY	Azimet-Einstellschraube	Bei der Einstellung, bei der der Ausgang maximal ist, so einstellen, daß die auf die Azimet-Einstellschraube dem Oszilloskop-Bildschirm erscheinende Lissajousfigur nahe einer um 45° geneigten Linie kommt. Hinweis: Der Tonkopf muß so installiert sein, daß er zum Band weist.	(a)
[3]	Bandgeschwindigkeit	SCC-1727 MTT-111, TCC-100 3 kHz, -4 dB	(B)	PLAY	semi-fester Widerstand in der Gleichstrommotor-Einheit	So einstellen, daß die Frequenz in der Mitte des Bandes 3 kHz beträgt.	(b)
II. Platinen-Einstellung							
<1>	Wiedergabepegel	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R) (X26-126)	So einstellen, daß LINE OUT -1,2 dBs beträgt.	
		MTT-256, SCC-1727 315 Hz				So einstellen, daß LINE OUT -4,0 dBs beträgt.	
		MTT-256U, TCC-160 315 Hz				So einstellen, daß LINE OUT 0 dBs beträgt.	
<2>	Vormagnetisierungsstrom	(A) 1 kHz, -30 dBs 10 kHz, -30 dBs	(B)	Den REC-Regelwiderstand (LEVEL, BALANCE) so einstellen, daß der REC-Überwachungsausgang -24 dBs bei 1 kHz beträgt, und 1 kHz und 10 kHz abwechselnd aufnehmen und wiedergeben.	VR31 (L) VR32 (R) (X26-126)	1 kHz und 10 kHz abwechselnd aufnehmen und jeden Vormagnetisierungsstrom-Einstellungs-Regelwiderstand so einstellen, daß der 10-kHz-Wiedergabepegel +0,5 dB gegen 1 kHz beträgt.	
<3>	FL-Meter 0 dB	(A) 1 kHz, -10 dBs	—	Den REC-Regelwiderstand (LEVEL, BALANCE) so einstellen, daß der REC PAUSE-Überwachungsausgang -4 dBs bei 1 kHz beträgt.	VR95 (R) (X25-440)	So einstellen, daß "0 dB" leuchtet.	
Hinweis: Zu Punkt <1> in "II. Platinen-Einstellung"							
Obwohl 3 Arten von Bändern für die Wiedergabepegel-Einstellung vorgegeben sind, reicht die Verwendung eines Bandes für die Einstellung aus. Das bedeutet, daß nicht alle 3 Arten Bänder verwendet werden brauchen. Wenn ein anderes Testband als die oben angeführten Bänder mit gleichen magnetischen Fluß und gleicher Frequenz verfügbar ist, kann die Einstellung mit diesem Testband durchgeführt werden, indem der Wiedergabe-Ausgang für den spezifizierten Ausgangspegel dieses Bandes in Übereinstimmung mit der Einstellmethode passend gemacht wird.							

※ Zu Ihrer Sicherheit sollten Sie zum Einstellen der Bandgeschwindigkeit die Laufwerk-Baugruppe zusammen mit der Frontplatte und der Leiterplatte entfernen.

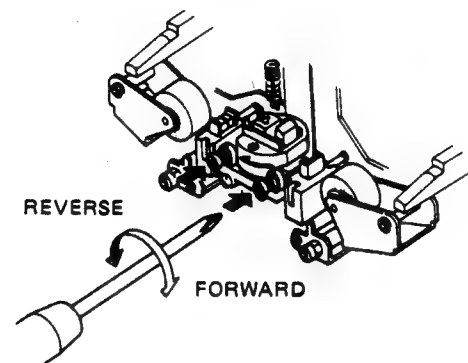
KX-7030 KX-7030

ADJUSTMENT/REGLAGE/ABGLEICH

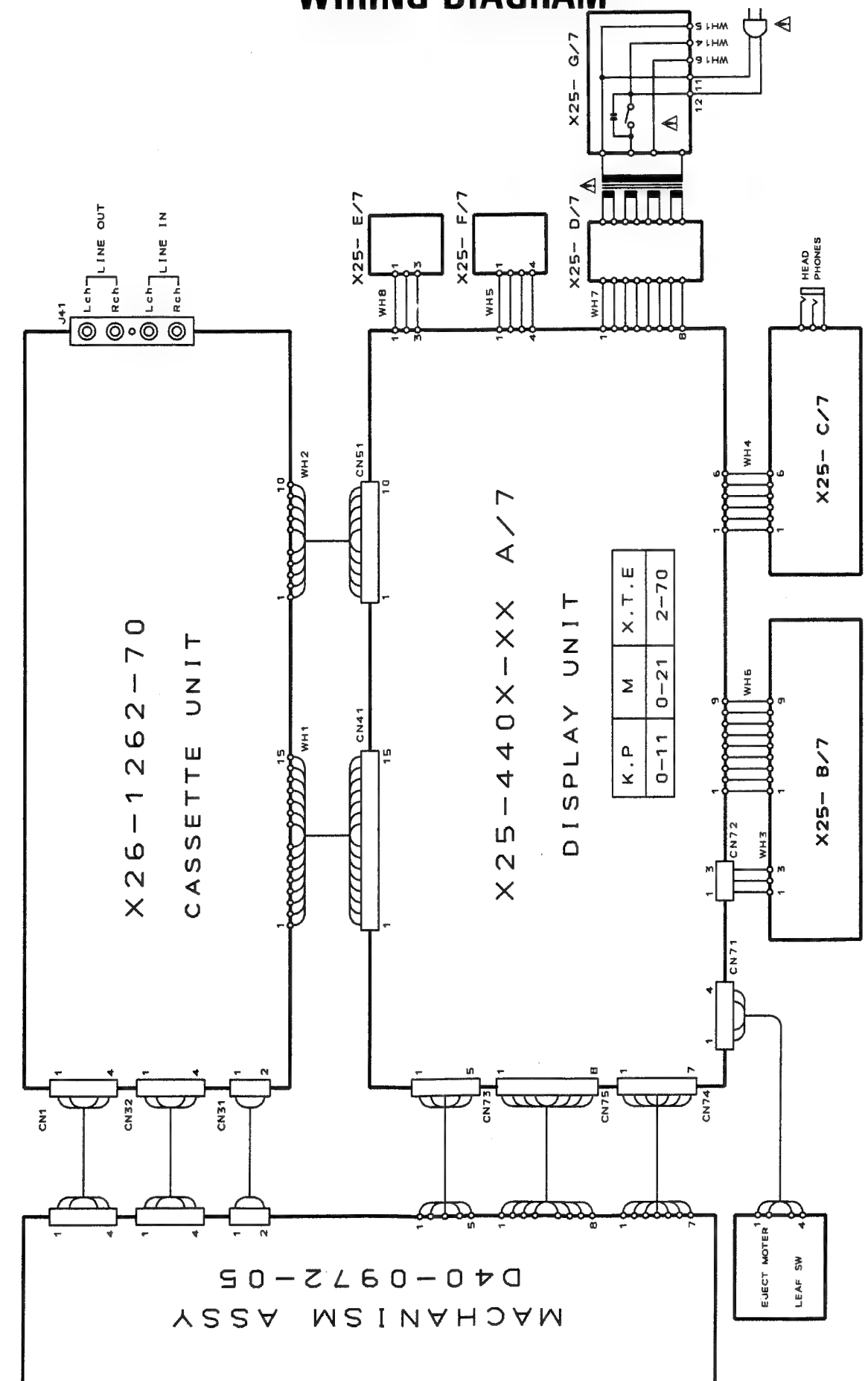
Measurement Equipment Connections:



(a) Azimuth adjustment



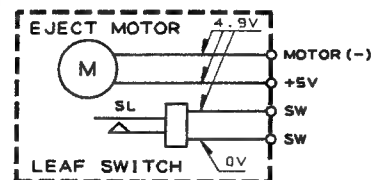
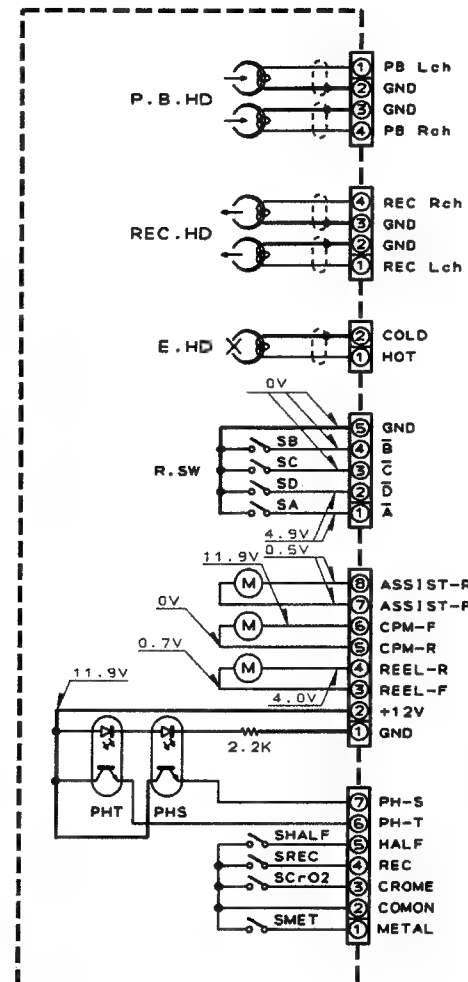
WIRING DIAGRAM



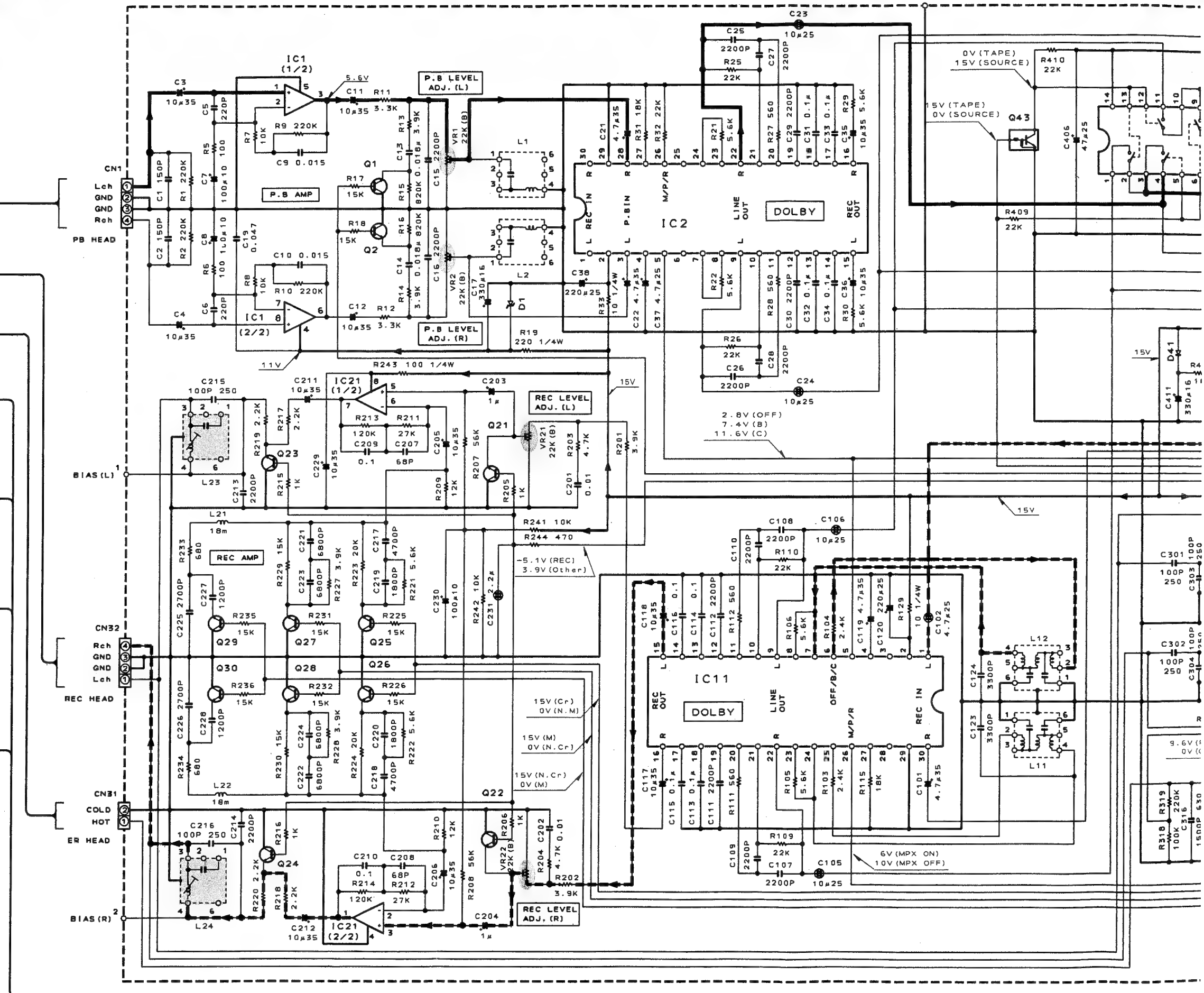
A	B	C	D	E	F	G	H	I	J
---	---	---	---	---	---	---	---	---	---

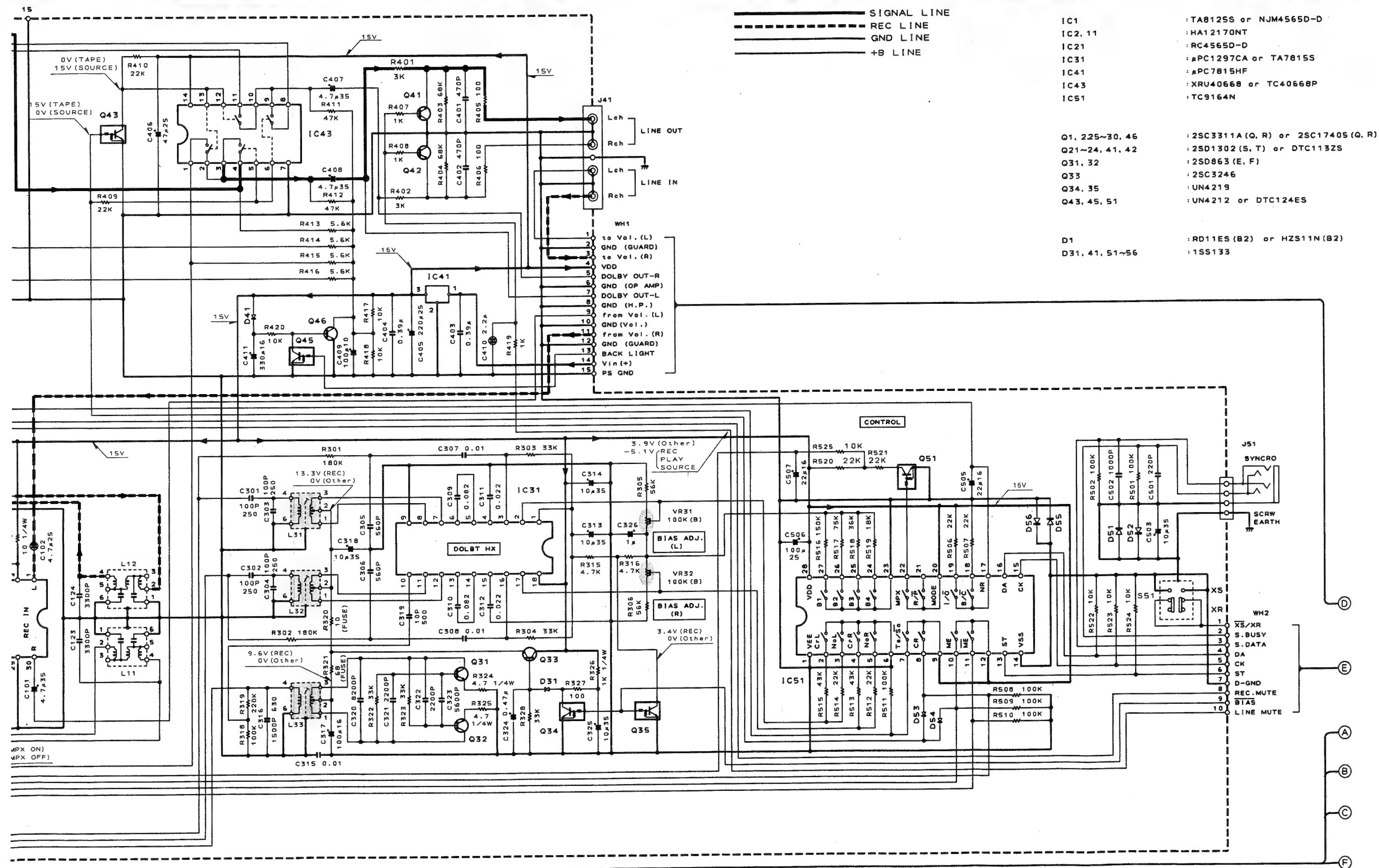


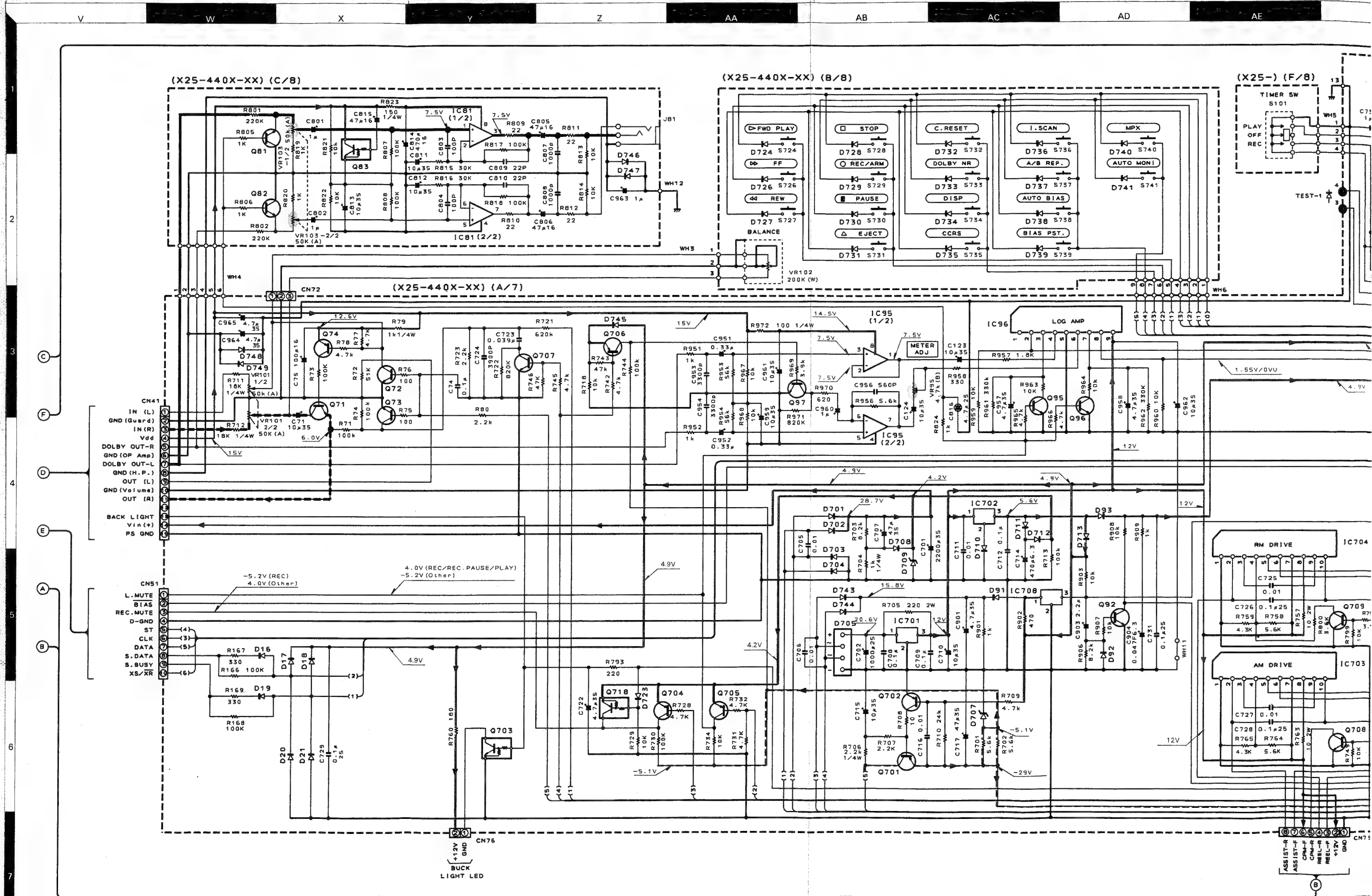
D40-0972-05

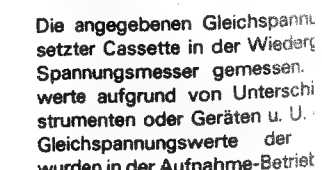


(X26-1262-70)

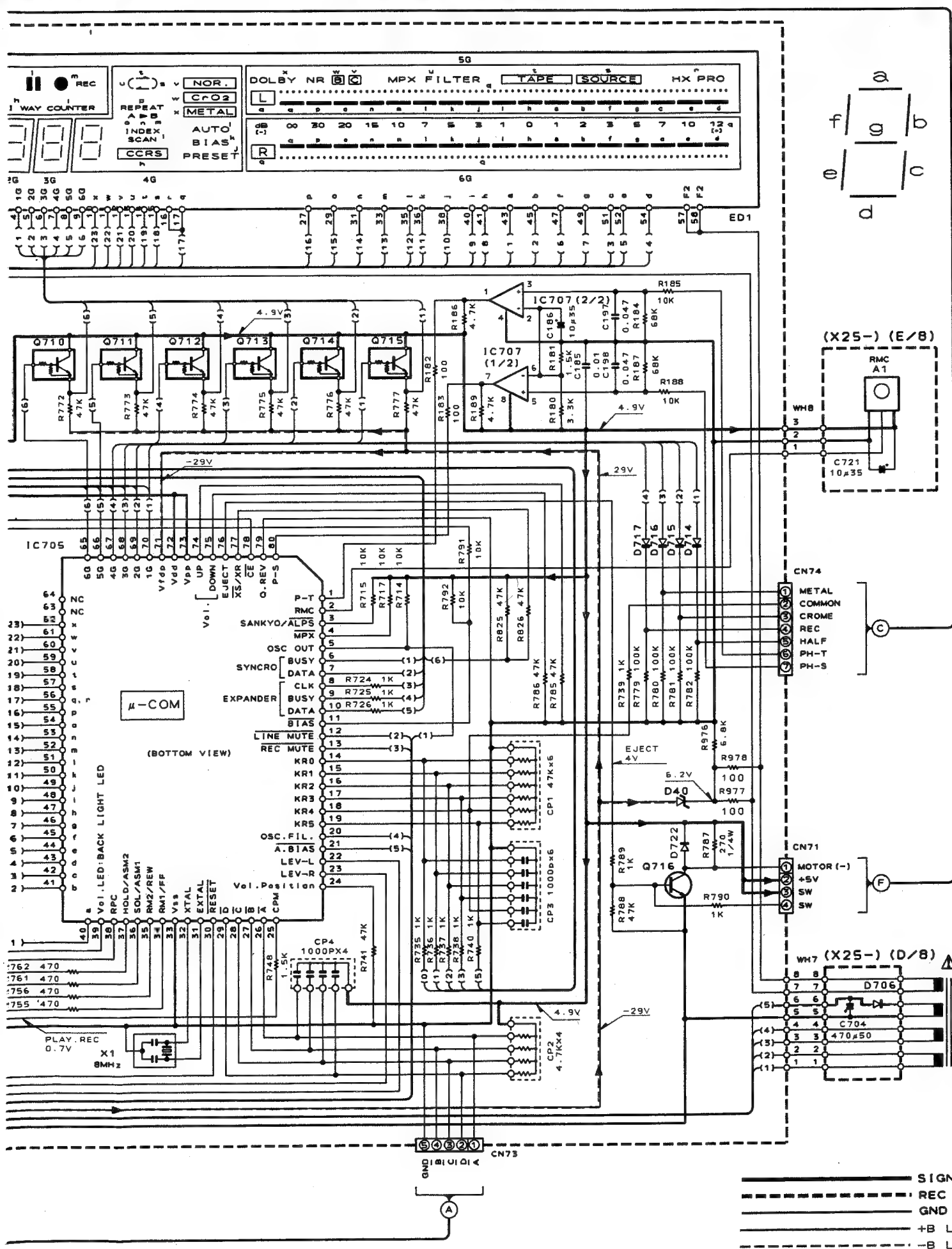






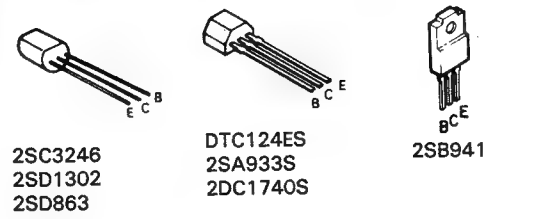


- SIGNAL LINE
- REC LINE
- GND LINE
- +B LINE
- -B LINE



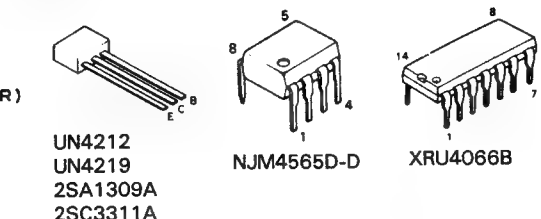
IC81
IC95
IC96
IC701
IC702
IC703
IC704
IC705
IC707
IC708

:M5218AL
:RC4565D-D or NJM4565D-D
:BA6138
:PC7812HF or TA7812S
:PC7805HF or TA7805S
:BA6209N
:BA6229
:CXP82124-1030
:BA10393N
:PST529D or M51951ASL



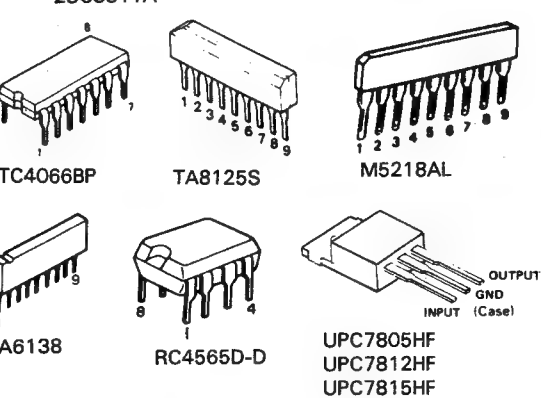
Q71~73, 92, 95~97,
707, 709
Q81, 82
Q83, 703
Q701
Q708, 716
Q710~715
Q718

:2SC3311A (Q, R) or 2SC1740S (Q, R)
:2SD1302 (S, T)
:UN4212 or DTC124ES
:2SB941
:2SC4236
:UN4129 or DTC113ZS
:UN4119 or DTA113ZS



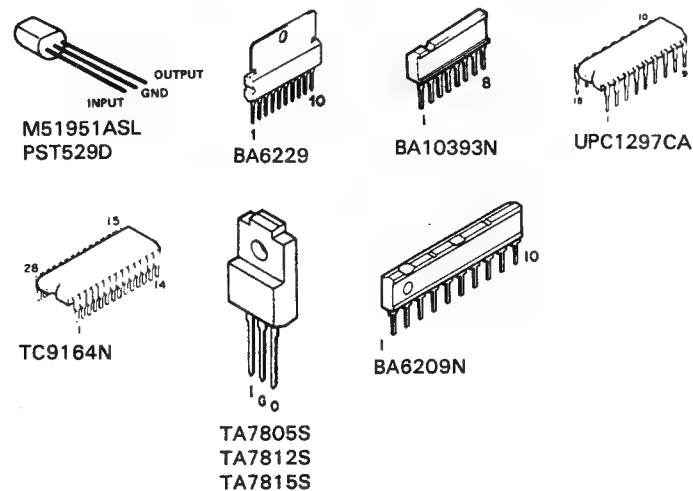
D16~21, 91~93, 708, 710~712,
722, 723, 743~747
D40
D701~704, 706, 713
D705
D707
D709
D714~717, 719~721,
724, 726~741

:1SS133 or HSS104
:RD6.2ES (B2) or HZS6.2N (B2)
:1SR139-100 or S56888
:KBP02ML-6127
:RD5.1JS (B) or HZS5.1S (B)
:RD3.9ES (B) or HZS5.9N (B)
:1SS131 or HSS104A



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DESTINATION	0-11 (K, P)	0-21 (M)	2-70 (X, T, E)
Ref. No.			
*WH14-16	NO	YES	NO
*11, 12	YES	NO	YES



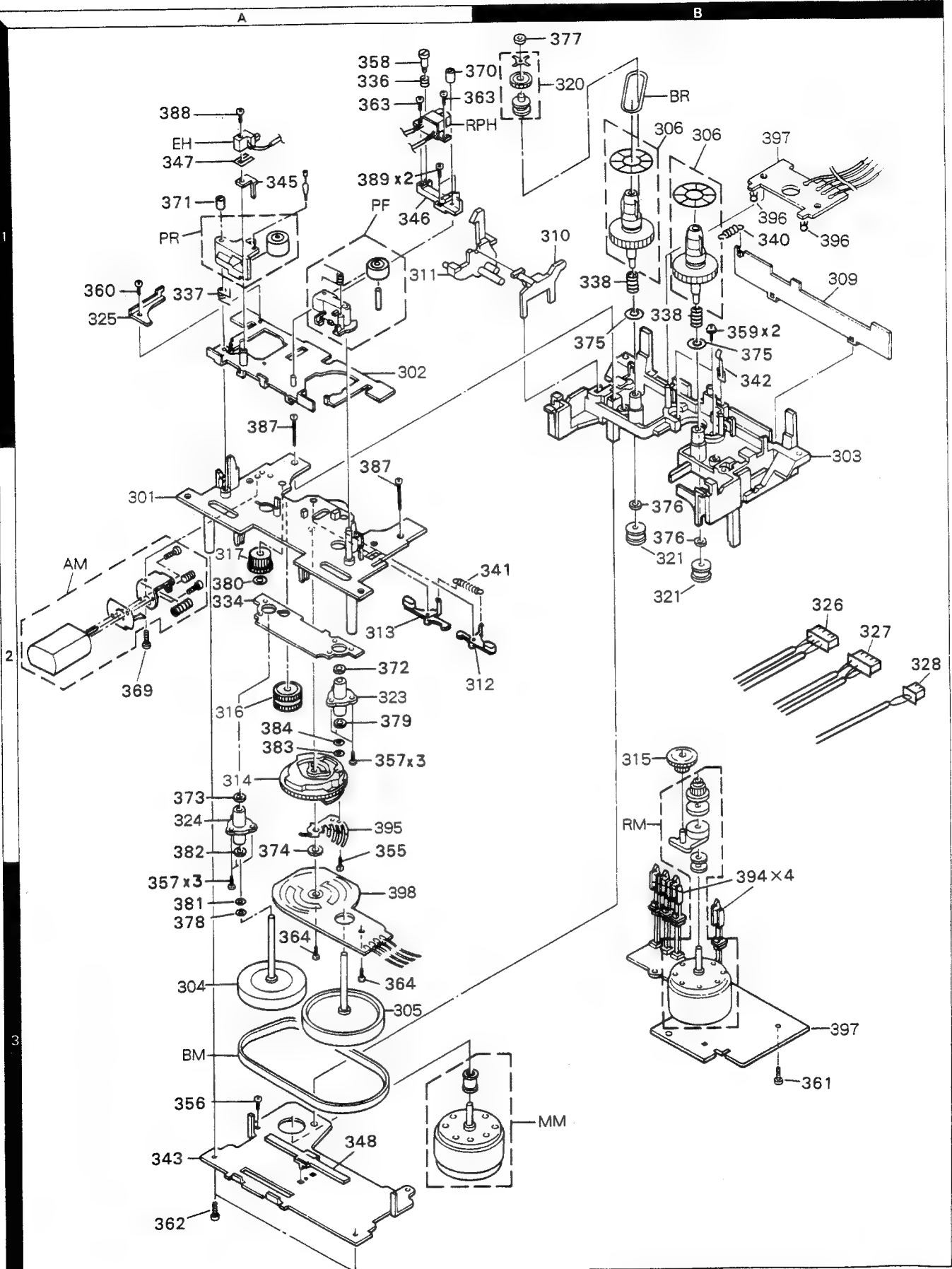
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

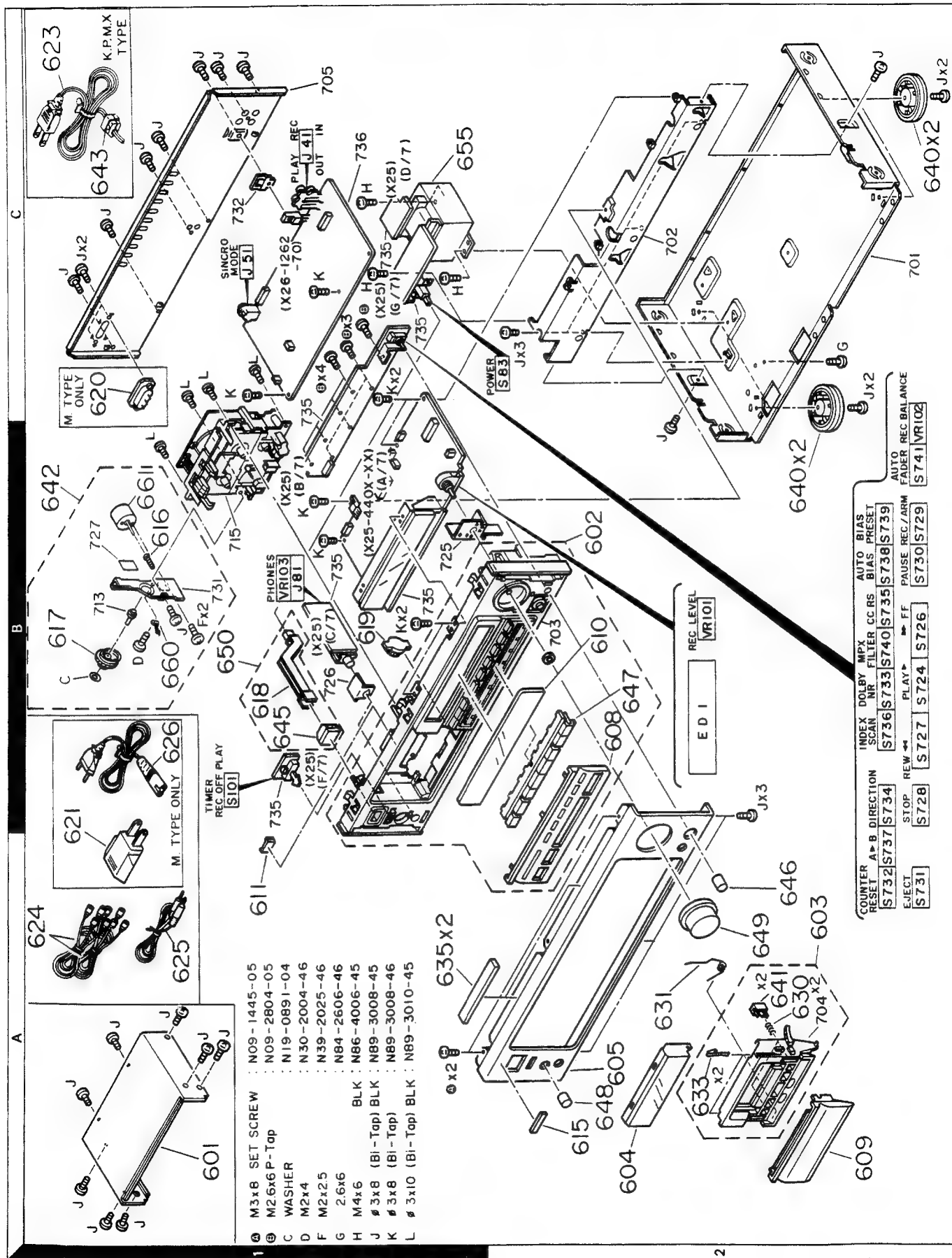
Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (MAIN UNIT)



PARTS LIST

No.1

★ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Destination list

Destination	Re- marks
KX-7030	JAPAN MADE K, P, M, X, T, E

Display unit

X25-4400-11	KX-7030K, P
X25-4400-21	KX-7030M
X25-4402-70	KX-7030X, T, E

Cassette unit

X26-1262-70	KX-7030K, P, M, X, T, E
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Mechanism ass'y

D40-0972-05	KX-7030K, P, M, X, T, E
-------------	-------------------------

Ref. No.	Address	Parts No.	Description	Desti- nation	Re- marks
KX-7030					
601	1C	A01-1944-01	METALLIC CABINET		
602	1D, 2D	A22-1484-02	SUB PANEL ASSY		
603	2C	A53-1287-03	CASSETTE HOLDER ASSY		
604	2C	A53-1290-03	CASSETTE LID		
605	2C	A60-0057-02	PANEL		
608	2C, 2D	B03-2712-03	DRESSING PLATE (PANEL)		
609	2C	B03-2714-03	DRESSING PLATE (CASSETTE)		
610	1D, 2D	B10-1848-03	FRONT GLASS		
611	1C, 1D	B30-1036-05	LED(SLF-601C)		
615	2C	B43-0287-04	KENWOOD BADGE		
-	-	B46-0092-03	WARRANTY CARD		
-	-	B46-0096-23	WARRANTY CARD		
-	-	B46-0121-03	WARRANTY CARD		
-	-	B46-0122-13	WARRANTY CARD		
-	-	B46-0143-13	WARRANTY CARD		
-	-	B60-0416-00	INSTRUCTION MANUAL (ENGLISH)		
-	-	B60-0417-00	INSTRUCTION MANUAL (FRENCH)		
-	-	B60-0418-00	INSTRUCTION MANUAL (SPA, CHI)		
-	-	B60-0419-00	INSTRUCTION MANUAL (GE, DU, IT)		
616	1D	D13-0282-04	WORM		
617	1D	D13-0918-03	GEAR		
618	1D	D21-1648-03	EXTENSION SHAFT		
619	1D	D39-0176-05	DAMPER		
620	1E	E03-0102-25	AC INLET		
621	1C, 1D	E03-0115-05	AC PLUG ADAPTER		
623	1E	E30-0459-05	AC POWER CORD		
623	1E	E30-0780-05	AC POWER CORD		
623	1E	E30-1341-05	AC POWER CORD		
623	1E	E30-1416-05	AC POWER CORD		
624	1C	E30-0505-05	AUDIO CORD		
625	1C	E30-0977-05	CORD WITH PLUG		
626	1D	E30-1329-05	AC POWER CORD (INLET)		
630	2C	G01-2288-04	COMPRESSION SPRING		
631	2C	G01-3351-04	TORSION COIL SPRING		
633	2C	G02-0937-04	FLAT SPRING		
635	1C, 2C	G11-0185-04	SOFT TAPE		
-	-	H50-0047-04	ITEM CARTON CASE		
-	-	H10-5117-12	POLYSTYRENE FOAMED FIXTURE		
-	-	H10-5118-12	POLYSTYRENE FOAMED FIXTURE		
-	-	H20-0417-14	PROTECTION COVER(40X370X340)		
-	-	H25-0224-04	PROTECTION BAG (800X400X0.03)		
-	-	H25-0232-04	PROTECTION BAG (235X350X0.03)		
640	2D, 2E	J02-1052-05	FOOT		
641	2C	J11-0140-04	CLAMPER ASSY		
642	1D	J21-5710-15	ROUTING HARDWARE ASSY (EJECT)		
643	1E	J42-0083-05	POWER CORD BUSHING		
-	-	J61-0307-05	WIRE BAND		
645	1D	K29-3835-04	KNOB POWER (K29-4180-04 ASSY)		
646	2C	K29-4010-04	KNOB REC BALANCE		
647	2D	K29-4150-03	KNOB TAPE CONTROL		
648	2C	K29-4151-04	KNOB PHONES LEVEL		
649	2C	K29-4153-04	KNOB REC LEVEL		

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* New Parts

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Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No.2

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
650	1D	K29-4180-04	KN68 ASSY POWER		
655	1E	L07-0296-05	POWER TRANSFORMER	KP	
655	1E	L07-0297-05	POWER TRANSFORMER	XTE	
655	1E	L07-0298-05	POWER TRANSFORMER	M	
A	1C	N09-1445-05	SET SCREW (M3X8)		
B	1D	N09-2804-05	TAPPING SCREW (2.6X6)		
C	1D	N19-0891-04	FLAT WASHER		
D	1D	N30-2004-46	PAN HEAD MACHIN SCREW		
F	1D	N39-2025-46	PAN HEAD MACHIN SCREW		
G	1D	N84-2606-46	PAN HEAD TAPITTE SCREW		
H	1E	N86-4006-45	BINDING HEAD TAPITTE SCREW		
J	1C, 1E	N89-3008-45	BINDING HEAD TAPITTE SCREW		
K	1D	N89-3008-46	BINDING HEAD TAPITTE SCREW		
L	1D, 1E	N89-3010-45	BINDING HEAD TAPITTE SCREW		
M	1C	N09-2776-05	SET SCREW (M3X8)		
660	1D	S74-0001-05	LEAF SWITCH		
661	1D	T42-0567-05	DC MOTOR (EJECT)		
DISPLAY UNIT (X25-4400-11: K, P, O-21: M, 2-70: X, T, E)					
C71		CE04KW1V100H	ELECTRØ 100UF 35WV		
C74		CF92FV1H104J	MF 0.10UF J		
C75		CE04KW1C101M	ELECTRØ 100UF 16WV		
C123, 124		CE04KW1V100H	ELECTRØ 100UF 35WV		
C185		CK45FF1H103Z	CERAMIC 0.010UF Z		
C186		CE04KW1V100H	ELECTRØ 100UF 35WV		
C197, 198		CK45FF1H473Z	CERAMIC 0.047UF Z		
C701		CE04KW1V222M	ELECTRØ 2200UF 35WV		
C702		C90-1872-05	ELECTRØ 10000UF 25WV		
C704		CE04KW1H471M	ELECTRØ 470UF 50WV		
C705, 706		CK45FF1H103Z	CERAMIC 0.010UF Z		
C707		CE04KW1V470M	ELECTRØ 47UF 35WV		
C708, 709		CF92FV1H104J	MF 0.10UF J		
C710		CE04KW1V100H	ELECTRØ 100UF 35WV		
C711		CF92FV1H105J	MF 0.010UF J		
C712		CF92FV1H104J	MF 0.10UF J		
C714		CE04KW0J471M	ELECTRØ 47UF 35WV		
C715		CE04KW1V100H	ELECTRØ 100UF 35WV		
C716		CK45FF1H103Z	CERAMIC 0.010UF Z		
C717		CE04KW1V470M	ELECTRØ 47UF 35WV		
C720		CK45FF1H103Z	CERAMIC 0.010UF Z		
C721		CE04KW1V100H	ELECTRØ 100UF 35WV		
C722		CE04KW1V471M	ELECTRØ 47UF 35WV		
C723		CF92FV1H393J	MF 0.039UF J		
C724		CF92FV1H392J	MF 3900PF J		
C725		CK45FF1H103Z	CERAMIC 0.010UF Z		
C726		C91-0700-05	CERAMIC 0.1UF Z		
C727		CK45FF1H103Z	CERAMIC 0.010UF Z		
C728, 729		C91-0700-05	CERAMIC 0.1UF J		
C730		CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C731		C91-0700-05	CERAMIC 0.1UF J		
C753		C91-1421-05	FILM 0.01UF 250AC		
C753		C91-1439-05	FILM 0.01UF 250VAC		
C801, 802		CE04KW1H010M	ELECTRØ 1.0UF 50WV	MXTE KP	

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No.3

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C803, 804		CC45FSL1H101J	CERAMIC 100PF		
C805, 806		CE04KW1C470M	ELECTRØ 47UF 16WV	J	
C807, 808		CK45FBL1H102K	CERAMIC 1000PF	K	
C809, 810		CK45FSL1H220J	CERAMIC 22PF	J	
C811-813		CE04KW1V100M	ELECTRØ 10UF 35WV		
C814		CE04DW1C471M	ELECTRØ 470UF 16WV		
C815		CE04KW1C470M	ELECTRØ 47UF 16WV		
C816		C90-1352-05	MF-ELEC 4.7UF 25WV		
C901		CE04KW1V471M	ELECTRØ 4.7UF 35WV		
C903		CE04KW1H2R2M	ELECTRØ 2.2UF 50WV		
C904		C90-1826-05	BACKUP 0.047F	5.5WV	
C951, 952		CE04KW1H332M	ELECTRØ 0.330UF	50WV	
C953, 954		CF92FV1H332J	MF 3300PF	J	
C956		CK45FBL1H561K	CERAMIC 560PF	K	
C957, 958		CE04KW1V471M	ELECTRØ 4.7UF 35WV		
C959		CE04KW1V100M	ELECTRØ 10UF 35WV		
C960		CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C961, 962		CE04KW1V100M	ELECTRØ 10UF 35WV		
C963		CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C965, 966		CE04KW1V471M	ELECTRØ 4.7UF 35WV		
J81		E11-0189-05	PHONE JACK	HEAD PHONE	
X1		L78-0275-05	RESONATOR 8MHz		
CP1		R90-0819-05	MULTI-COMP 47K X6		
CP2		R90-0824-05	MULTI-COMP 4.7KX6		
CP3		R90-0499-05	MULTI-COMP 1000PX6		
CP4		R90-0478-05	MULTI-COMP 1000PX4		
R79		R014N82E102J	RD 1.0K J 1/4W		
R704		R014G82E102J	RD 1.0K J 1/4W		
R705		RS14K83D221J	RD 220 J 1/4W		
R706		R014N82E222J	RD 2.2K J 1/4W		
R757		RS14K83D100J	RD 10 J 2W		
R763		RS14K83D688J	RD 6.8 J 2W		
R787		R014N82E271J	RD 270 J 1/4W		
R823		R014N82E151J	RD 150 J 1/4W		
R972		R014N82E101J	RD 100 J 1/4W		
VR95		R12-1619-05	TRIMMING POT. (4.7K)		
VR101		R06-4085-05	POTENTIOMETER REC LEVEL		
VR102		R05-5043-05	POTENTIOMETER REC BALANCE		
VR103		R10-4040-05	POTENTIOMETER HEADPHONE LEVEL		
S83		S40-1153-05	PUSH SWITCH POWER		
S101		S31-1017-05	SLIDE SWITCH TIMER		
S724		S40-1064-05	PUSH SWITCH KEY BOARD		
S726-741		S40-1064-05	PUSH SWITCH KEY BOARD		
D16 -21		HSS104	D10DE		
D16 -21		ISS133	D10DE		
D40		HZS6-2N(82)	ZENER DIODE		
D40		R06-2ES(82)	ZENER DIODE		
D91 -93		HSS104	D10DE		
D91 -93		ISS133	D10DE		
D701-704		SS5688	D10DE		
D701-704		LSR139-100	D10DE		
D705		KB02ML-6127	D10DE		
D706		SS5688	D10DE		

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PARTS LIST

No.5

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
Q704-706		2SA933S(Q,R)	TRANSISTOR	
Q707		2SC1740S(Q,R)	TRANSISTOR	
Q708		2SC3311A(Q,R)	TRANSISTOR	
Q709		2SC3246	TRANSISTOR	
Q710-715		2SC1740S(Q,R)	TRANSISTOR	
Q716		2SC3311A(Q,R)	DIGITAL TRANSISTOR	
Q718		UN4219	TRANSISTOR	
Q719		2SC3246	DIGITAL TRANSISTOR	
Q720		DTA1132S	TRANSISTOR	
Q721		UN4119	TRANSISTOR	
Q722		W02-1046-05	ELECTRIC CIRCUIT MODULE	
Q723				
Q724				
Q725				
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No.4

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Ref. No. 参照番号	Address 位置	New Parts 番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
Q706			1SR139-100	DIODE	
Q707			H255-1S(B)	ZENER DIODE	
Q707			R05-1JS(B)	ZENER DIODE	
Q708			HSS104	DIODE	
Q708			1SR133	DIODE	
Q709			H253-9H(B)	ZENER DIODE	
Q709			R03-9ES(B)	ZENER DIODE	
Q710-712			HSS104	DIODE	
Q710-712			1SR133	DIODE	
Q713			S5688B	DIODE	
Q713			1SR139-100	DIODE	
Q714-717			HSS104A	DIODE	
Q714-717			1SR131	DIODE	
Q718-721			HSS104A	DIODE	
Q718-721			1SR131	DIODE	
Q722-723			HSS104	DIODE	
Q722-723			1SR133	DIODE	
Q724			HSS104A	DIODE	
Q724			1SR131	DIODE	
Q726-741			HSS104A	DIODE	
Q726-741			1SR131	DIODE	
Q743-749			HSS104	DIODE	
Q743-749			1SR133	DIODE	
ED1		*	F1P17AM6Y	FLUORESCENT INDICATOR TUBE	
IC681			H5218AL	IC(OP AMP X2)	
IC95			NJM4565D-D	IC(OP AMP X2)	
IC95		*	RC4565D-D	IC(OP AMP X2)	
IC96			BA6138	IC(BOOT AMP X2)	
IC96		*	TA7812S	IC(VOLTAGE REGULATOR/ +12V)	
IC701			UPC7812HF	IC(VOLTAGE REGULATOR/ +12V)	
IC701			TA7805S	IC(VOLTAGE REGULATOR/ +5V)	
IC702			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)	
IC702			BA6209N	IC(MOTOR DRIVER)	
IC703			BA6229	IC(MOTOR DRIVER)	
IC704			ICP82124-104Q	IC	
IC705		*			
IC707			BA10393N	IC(DUAL COMPARATOR)	
IC708			H51951ASL	IC(SYSTEM RESET)	
IC708			P5T529D	IC(SYSTEM RESET)	
Q711-73			25C1740S(Q,R)	TRANSISTOR	
Q711-73			25C3311A(Q,R)	TRANSISTOR	
Q74		*	25A1309A(Q,R)	TRANSISTOR	
Q74			25A933(Q,R)	TRANSISTOR	
Q81-82			25D1302(S,T)	TRANSISTOR	
Q83			1C124ES	DIGITAL TRANSISTOR	
Q83			UN4212	TRANSISTOR	
Q92			25C1740S(Q,R)	TRANSISTOR	
Q92			25C3311A(Q,R)	TRANSISTOR	
Q95-97			25C1740S(Q,R)	TRANSISTOR	
Q95-97			25C3311A(Q,R)	TRANSISTOR	
Q701			25B941	TRANSISTOR	
Q702		*	25A1309A(Q,R)	TRANSISTOR	
Q702			25A933S(Q,R)	DIGITAL TRANSISTOR	
Q703			DTC124ES	TRANSISTOR	
Q703			UN4212	TRANSISTOR	
Q704-706		*	25A1309A(Q,R)	TRANSISTOR	

PARTS LIST

No.7

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
D1		HZS11N(B2)	ZENER DIODE	
D1		R011ES(B2)	ZENER DIODE	
D31		HSS104	DIODE	
D31		HSS133	DIODE	
D41		HSS104	DIODE	
D41		HSS133	DIODE	
D51 -56		HSS104	DIODE	
D51 -56		HSS133	DIODE	
IC1		TA8125S	IC(2CH PRE AMP)	
IC2		HA12170NT	IC(DOLBY B/C NR)	
IC11		HA12170NT	IC(DOLBY B/C NR)	
IC21		NJM4565D-D	IC(OP AMP X2)	
IC21		RC4565D-D	IC(OP AMP X2)	
IC31		UPC1297CA	IC(DOLBY HX PRO SYSTEM)	
IC41		TA7815S	IC(VOLTAGE REGULATOR/ +15V)	
IC41		UPC7815HF	IC(VOLTAGE REGULATOR/ +15V)	
IC43		TC4066BP	IC(ANALOG/ DIGITAL SW)	
IC43		XRU0466B	IC(ANALOG SWITCH) L SW	
Q1 , 2		IC7164N	IC(16CH BILATERAL SELECTOR SW)	
Q1 , 2		25C17405(Q,R)	TRANSISTOR	
Q1 , 2		25C3311A(Q,R)	TRANSISTOR	
Q21 -24		25D1302(S,T)	TRANSISTOR	
Q25 -30		25C17405(Q,R)	TRANSISTOR	
Q25 -30		25C3311A(Q,R)	TRANSISTOR	
Q31 , 32		25D863(E,F)	TRANSISTOR	
Q33		25C3246	TRANSISTOR	
Q34 , 35		DTIC1132S	DIGITAL TRANSISTOR	
Q41 , 42		UN4219	TRANSISTOR	
Q43		25D1302(S,T)	TRANSISTOR	
Q43		DTIC124ES	DIGITAL TRANSISTOR	
Q43		UN4212	TRANSISTOR	
Q45		DTIC124ES	DIGITAL TRANSISTOR	
Q45		UN4212	TRANSISTOR	
Q46		25C17405(Q,R)	TRANSISTOR	
Q46		25C3311A(Q,R)	TRANSISTOR	
Q51		DTIC124ES	DIGITAL TRANSISTOR	
Q51		UN4212	TRANSISTOR	
MECHANISM ASSY (D40-0972-05)				
301	2A	A10-2891-08	CHASSIS CALKED ASSY	
302	1A, 2B	A10-2892-08	CHASSIS CALKED ASSY	
303	1A, 2B	A11-0721-08	SUB CHASSIS ASSY	
304	3A	D01-0134-08	FLYWHEEL	
305	3A	D01-0122-08	FLYWHEEL	
306	1B	D03-0293-08	REEL DISK ASSY	
309	1B	D10-2429-08	CASSETTE LEVER	
310	1B	D10-2430-08	LEVER	
311	1A, 1B	D10-2431-08	EJECT LEVER	
312	2A, 2B	D10-3198-08	BRAKE LEVER (L)	
313	2A	D10-3199-08	BLAKE LEVER (R)	
314	2A	D13-0874-08	CAM GEAR	
315	2B	D13-0875-08	IDLER GEAR	
316	2A	D13-0953-08	GEAR ASSY	
317	2A	D13-0954-08	GEAR ASSY	
320	1B	D15-0308-08	PULLEY ASSY	

No.6

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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C229		CE04KW1V100N	ELECTRØ	
C230		CE04KW1A101H	ELECTRØ	
C231		C90-1350-05	NP-ELEC	
C301 -304		C91-1432-05	FILM	
C305, 306		CK45F81H561K	CERAMIC	
C307, 308		CF92FV1H103J	MF	
C309, 310		CF92FV1H823J	MF	
C311, 312		CF92FV1H223J	MF	
C313, 314		CE04KW1V100N	ELECTRØ	
C315		CK45F81H103Z	CERAMIC	
C316		C91-0775-05	POLYPRØ	
C317		CE04KW1C101H	ELECTRØ	
C318		CE04KW1V100N	ELECTRØ	
C319		CC45FSL2H100D	CERAMIC	
C320		CF92FV1H822J	MF	
C321, 322		CF92FV1H222J	MF	
C323		CF92FV1H562J	MF	
C324		CE04KW1H47M	ELECTRØ	
C325		CE04KW1V100N	ELECTRØ	
C326		CE04KW1H010H	ELECTRØ	
C401, 402		CK45F81H471K	CERAMIC	
C403, 404		CF92FV1H394J	MF	
C405		CE04KW1E221M	ELECTRØ	
C406		C90-1922-05	ELECTRØ	
C407, 408		CE04KW1V47M	ELECTRØ	
C409		CE04KW1A101H	ELECTRØ	
C410		C90-1350-05	NP-ELEC	
C411		CE04KW1C311H	ELECTRØ	
C501		CC45FSL1H221J	CERAMIC	
C502		CK45F81H102K	CERAMIC	
C503		CE04KW1V100N	ELECTRØ	
C505		CE04KW1C220H	ELECTRØ	
C506		CE04KW1E101H	ELECTRØ	
C507		CE04KW1C220H	ELECTRØ	
J41		E13-0445-05	PHONE JACK (4P) LINE IN/OUT	
J51		E11-0188-05	MINIATURE PHONE JACK SYNCØ	
L1 , 2		L39-0190-05	TRAP COIL	
L11 , 12		L79-0792-05	LC FILTER	
L21 , 22		L40-1835-29	SMALL FIXED INDUCTØR(18MH , J)	
L23 , 24		L39-0190-05	TRAP COIL	
L31 , 32		L32-0393-05	BIAS OSCILLATING COIL	
L33		L32-0366-05	OSCILLATING COIL	
R19		RD14N82E221J	RD	
R33		RD14N82E100J	RD	
R129		RD14G82E100J	FL-PROOF RD	
R243		RD14N82E101J	RD	
R320		R92-0219-05	PULSE RESIST	
R321		R92-0226-05	PULSE RESIST	
R326		RD14G82E102J	FL-PROOF RD	
VR1 , 2		R12-3686-05	TRIMMING PØT.(22K)	
VR21, 22		R12-3145-05	TRIMMING PØT.(22K)	
VR31, 32		R12-5651-05	TRIMMING PØT.(100K)	
S51		S31-2094-05	SLIDE SWITCH SYNCØR MØDE	

E: Scandinavia & Europe K: USA P: Canada
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▲ indicates safety critical components

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PARTS LIST

No.9

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
BM	3A	*	D16-0299-08	MAIN BELT		
BR	1B	*	D16-0325-08	BELT		
EH	1A	*	T32-0309-05	ERASE HEAD		
HM	3A	*	T42-0560-08	DC MOTOR ASSY (CAPSTAN)		
PF	1A	*	D14-0319-08	PINCH ROLLER ASSY		
PR	1A	*	D14-0339-08	PINCH ROLLER ASSY		
RM	2B, 3B	*	T42-0592-08	DC MOTOR ASSY		
RPH	1A	*	T34-0340-05	RECORD/PLAYBACK HEAD		

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△ indicates safety critical components.

No.8

* New Parts
Parts without Parts No. are not supplied.
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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
321	2B	*	D15-0321-08	PULLEY ASSY		
323	2A	*	D23-0263-08	CAPSTAN RETAINER ASSY		
324	2A	*	D23-0264-08	CAPSTAN RETAINER ASSY		
325	1A	*	D32-0191-08	STOPPER		
326	2B	*	E35-0202-08	WIRING HARNESS (4P PLAY HEAD)		
327	2B	*	E35-0203-08	WIRING HARNESS (4P REC HEAD)		
328	2B	*	E35-0204-08	WIRING HARNESS (2P ERSE HEAD)		
334	2A	*	F39-0053-08	REINFORCING PARTS		
336	1A	*	G01-2466-08	COMPRESSION SPRING		
337	1A	*	G01-2471-08	TENSION SPRING		
338	1B	*	G01-3413-08	COMPRESSION SPRING BLUE		
340	1B	*	G01-3416-08	TENSION SPRING		
341	2A, 2B	*	G01-3423-08	TENSION SPRING (BRAKE)		
342	1B	*	G02-0959-08	FLAT SPRING (CASSETTE)		
343	3A	*	J21-5598-08	MOUNTING HARDWARE (MOTOR)		
345	1A	*	J21-5600-08	MOUNTING HARDWARE (ERASE HEAD)		
346	1A	*	J21-5773-08	MOUNTING HARDWARE		
347	1A	*	J30-0274-08	SPACER		
348	3A	*	J39-0158-08	SCREW		
355	3A	*	N09-2757-08	M2X3		
356	3A	*	N09-2758-08	SCREW		
357	3A	*	N09-2759-08	M2.6X3		
358	1A	*	N09-2760-08	M2X6		
359	1B	*	N09-2762-08	M2.6X1.6		
360	1A	*	N09-2763-08	M2X2.5		
361	3B	*	N09-2764-08	SCREW		
362	3A	*	N09-2765-08	SCREW		
363	1A	*	N09-2851-08	M2X4		
364	3A	*	N09-2852-08	SCREW		
369	2A	*	N09-2857-08	SCREW		
370	1A	*	N14-0189-08	NUT		
371	1A	*	N14-0190-08	NUT		
372	2A	*	N19-1235-08	FLAT WASHER /2.5X7X0.8		
373	2A	*	N19-1236-08	FLAT WASHER /2.2X7X0.8		
374	2A	*	N19-1237-08	FLAT WASHER /3X8X0.5		
375	1B	*	N19-1239-08	FLAT WASHER		
376	2B	*	N19-1240-08	FLAT WASHER /2.6X5.5X0.13		
377	1B	*	N19-1241-08	FLAT WASHER		
378	2A	*	N19-1275-08	FLAT WASHER		
379	2A	*	N19-1276-08	FLAT WASHER /2.6X7X0.13		
380	2A	*	N19-1277-08	FLAT WASHER		
381	2A	*	N19-1278-08	FLAT WASHER		
382	2A	*	N19-1279-08	FLAT WASHER		
383	2A	*	N19-1280-08	FLAT WASHER		
384	2A	*	N19-1281-08	FLAT WASHER		
387	2A	*	N30-2630-46	PAN HEAD MACHINE SCREW M2.6X30		
388	1A	*	N35-2012-46	BINDING HEAD MACHINE SCREW		
389	1A	*	N73-2004-46	SCREW M2X4		
394	3B	*	S74-0005-08	LEAF SWITCH		
395	2A	*	S90-0112-08	SWITCH WAFERS		
396	2B	*	T95-0118-08	PHOTO ISOLATOR		
397	3A	*	W02-1112-08	ELECTRIC UNIT		
398	3B	*	W02-1113-08	ELECTRIC UNIT		
-	3A	*	J61-0094-08	WIRE BAND		
AH	2A	*	T42-0593-08	DC MOTOR ASSY		

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SPECIFICATIONS

Track System	4-track, 2-channel stereo
Recording System	AC bias (Frequency: 210 kHz)
Heads	Playback/recording head (Combination head) 1 Erasing head..... 1
Motors.....	DC motor×3
Fast Winding Time	Approx. 80 seconds (C-60 tape)
Frequency Response:	
Normal Tape.....	20 Hz to 18,000 Hz, ±3 dB
CrO ₂ Tape	20 Hz to 19,000 Hz, ±3 dB
Metal Tape.....	20 Hz to 20,000 Hz, ±3 dB
Signal-to Noise Ratio:	
Dolby C NR ON.....	75 dB (Metal tape)
Dolby B NR ON.....	67 dB (Metal tape)
Dolby NR OFF.....	59 dB (Metal tape)
Harmonic Distortion.....	Less than 0.7% (at 1 kHz, 3rd H.D.Metal Tape)

Wow and Flutter..... 0.045% (W.R.M.S.)
± 0.10% (DIN)

Input sensitivity/Impedance:

LINE IN 77.5 mV/50 kΩ

Output Level/Impedance:

LINE OUT 490 mV/3 k Ω
Headphones..... 0.85 mW/8 Ω

[GENERAL]

Power Consumption 24 W
Dimensions..... **W:** 440 mm (17-5/16")
H: 127 mm (5")
D: 324 mm (12-3/4")
Weight (Net)..... 5.1 kg (11.2 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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KENWOOD strebt ständige Verbesserungen in der Entwicklung an.
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.
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Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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